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**LED DISPLAY**  
Product Catalogue



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### Introduction

Taiwan Oasis Technology Co., Ltd., was established by Mr. Ming-Shun Lee in 1974 with an ideal to provide the marketplace simplicity, integrity reliability, progress, precision, and innovation.

The company started its life initially as a dedicated downstream LED technology manufacturing service focused on items such as plastic molding, injection and packing.

As Oasistek expanded its business vertically and upgraded its competencies, it soon began to move into producing a complete range of products, such as High Power LEDs, LAMP LEDs, SMD LEDs, LED Displays and Lighting. Additionally, Oasistek also offers customization manufacturing services to help customers' meet their sales targets.

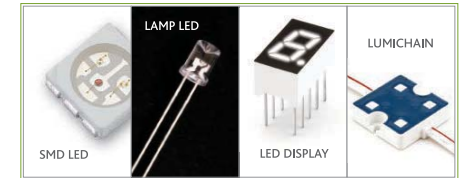
InLED recent years, Oasistek has proudly introduced its LED Video Display and Lumichain™ series to the marketplace. Oasistek has been applauded globally and is reputed as a pioneer in Taiwan for being the 1st Taiwanese LED manufacturer to consistently supply the Japanese market.

Today, Oasistek's complete product line-up is now well represented worldwide and is globally known for their quality and cutting-edge technology. Delivering a full range of services and meeting customers' need is its mission and Oasistek is sincerely inviting you to be a partner and step forward together.



Taiwan Headquarter

China Manufacturing Center



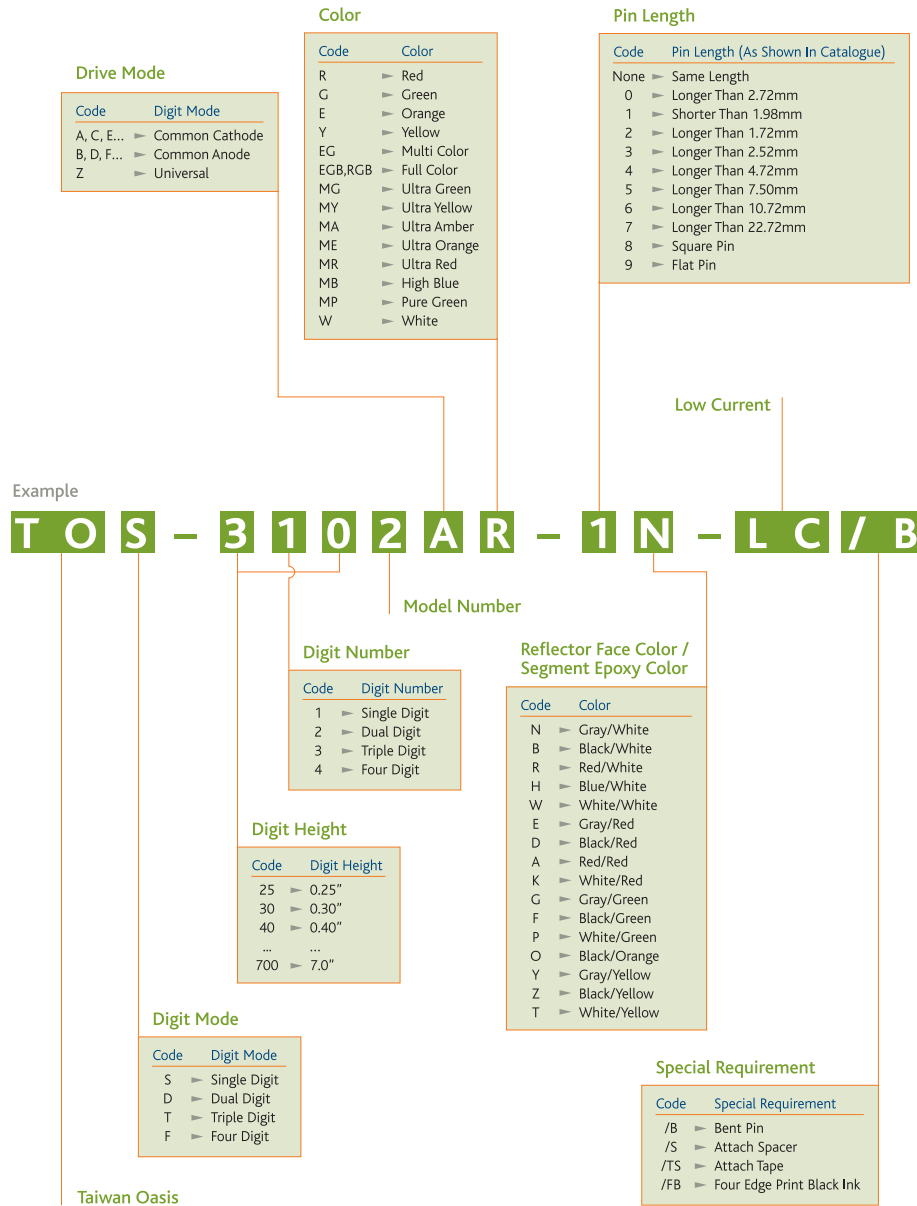
### Milestones

- 2013 The winner of Transformation and Upgrading of the processing Trade Industry Award held in Dongguan China, power was confirmed.
- 2012 Increase the new production line, the production capacity increased by more than 40KK/M. Establishment of an independent R & D department, the main R&D directions of illumination and backlight. Set up offices in Shenzhen and Qingdao and build up a unique channel marketing model.
- 2011 Launched a series of interior commercial lighting products.
- 2010 Launched "Star Vessel" which is functional and designing outdoor street light.
- 2009 Adopted a new brand identity "Oasistek" and a renewed spirit.
- 2008 China Hwa-Tai Factory completed. Adopted Green Policy. Lumichain trademark registered
- 2007 Began offering full product range from LEDs components to LED Video Displays.
- 2005 Announced partnership with leading Japanese corporation, White LED Technology. Lumichain series launched.
- 2004 Publicly Listed on the Taiwan Stock Exchange. ISO/TS 16949 Certified.
- 2003 Inaugurated fully automated line for LED Display production.
- 2001 Renamed to Taiwan Oasis Technology Co., Ltd. QS 9000 Certified.
- 1999 Begun SMD LED mass production. China factories ISO 9002 certified.
- 1998 Approval of Stock Issuance. Patent awarded for LED Packaging technology. Taiwan factories ISO 9002 certified
- 1996 Kwei Shan, Taiwan factory completed. Completed LED products launched.
- 1994 Merged with Lihsin Co., Ltd. Patent awarded for advanced CD package design.
- 1990 Dong-Guan, China factory completed. Patent awarded for assembling exchangeable plastic injection mold structures.
- 1989 Chung-Ho, Taiwan factory completed. Manufacturing of LED Indicators and LED Displays.
- 1984 Nan-Kan, Taiwan No.2 completed. PCB Manufacturing.
- 1980 Nan-Kan, Taiwan Factory No.1 completed. Manufacturing of Plastic Molds, Plastic Injections and, Reflectors for LED.
- 1974 Taiwan Oasis Enterprise Co., Ltd founded.

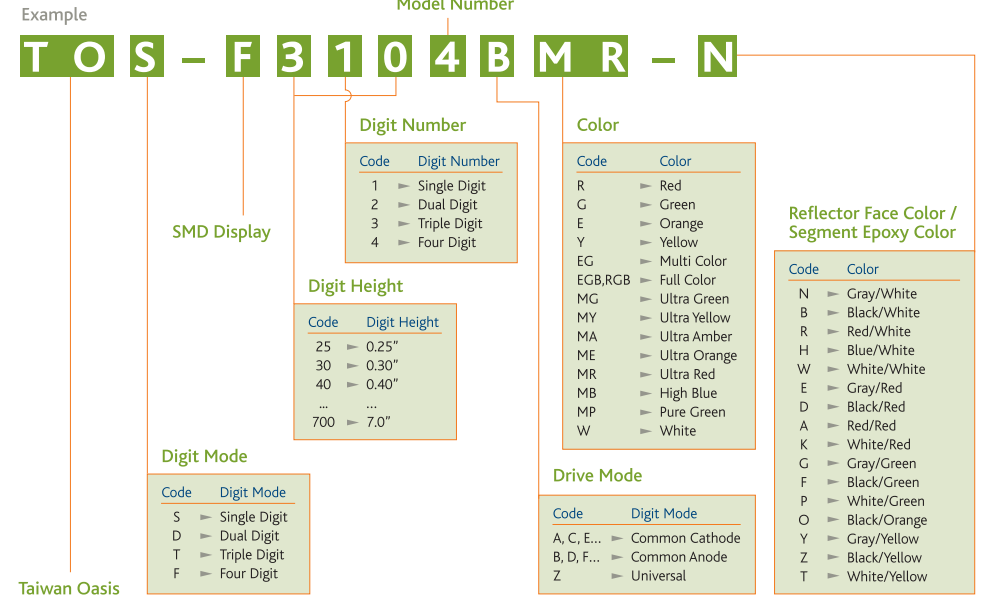
### Product Line

- |   |   |   |   |
|---|---|---|---|
| <p><b>1</b><br/><b>LED Component Group</b></p> <ul style="list-style-type: none"> <li>▶ LED Lamps</li> <li>▶ SMD LED</li> <li>▶ High Power LED</li> <li>▶ Holder Lamp</li> <li>▶ LED Display                             <ul style="list-style-type: none"> <li>▶ Seven Segment</li> <li>▶ Alphanumeric</li> <li>▶ Light Bar</li> <li>▶ Dot Matrix</li> </ul> </li> </ul> | <p><b>2</b><br/><b>Lighting Module Group</b></p> <ul style="list-style-type: none"> <li>▶ Lamp / Display Module</li> <li>▶ Backlight Module</li> <li>▶ Traffic Signal Module</li> <li>▶ Street Lamp Module</li> </ul> | <p><b>3</b><br/><b>System Group</b></p> <ul style="list-style-type: none"> <li>▶ Lumichain™</li> <li>▶ LED Cluster</li> </ul> | <p><b>4</b><br/><b>Extended Customization Group</b></p> <ul style="list-style-type: none"> <li>▶ Mold</li> <li>▶ Plastic                             <ul style="list-style-type: none"> <li>▶ Reflector</li> <li>▶ Light-guide Plate</li> <li>▶ Backlight Board</li> <li>▶ LED Through Holder</li> <li>▶ LED Cover Part</li> </ul> </li> <li>▶ PCB</li> </ul> |
|---|---|---|---|

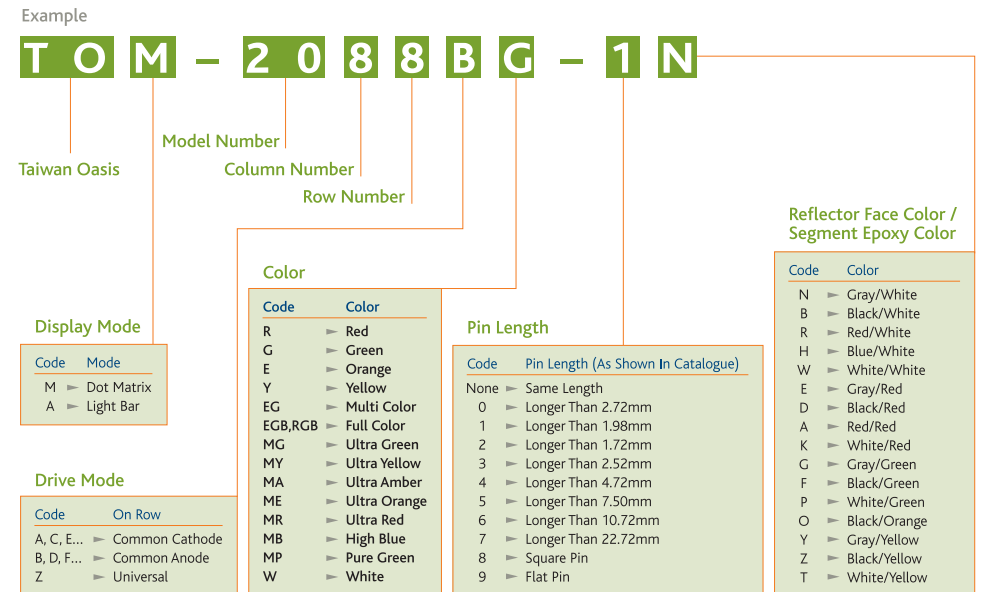
## Digit Display



## SMD Display



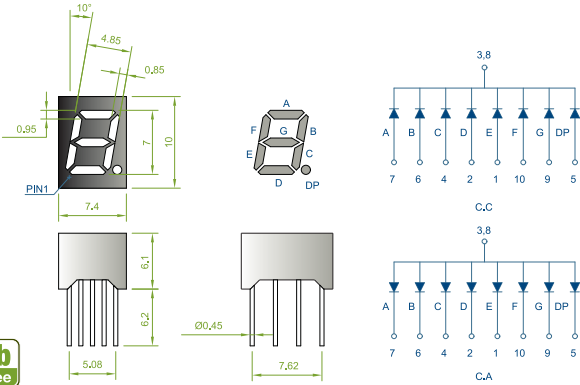
## Dot Matrix Display / Light Bar





## TOS-2181

0.28" Single Digit Display



**Features**

- 0.28 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

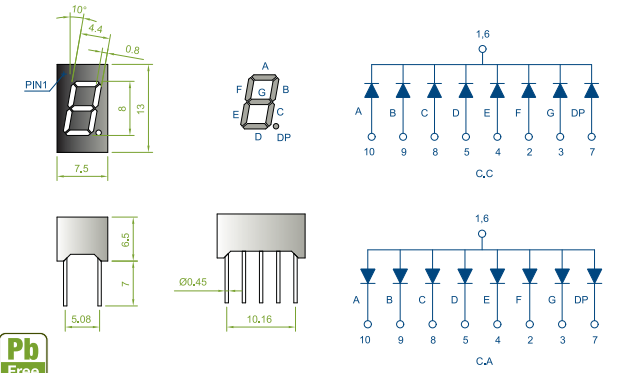
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$ / $I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-2181AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOS-2181AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-2181AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-2181AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-3121

0.32" Single Digit Display



**Features**

- 0.32 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

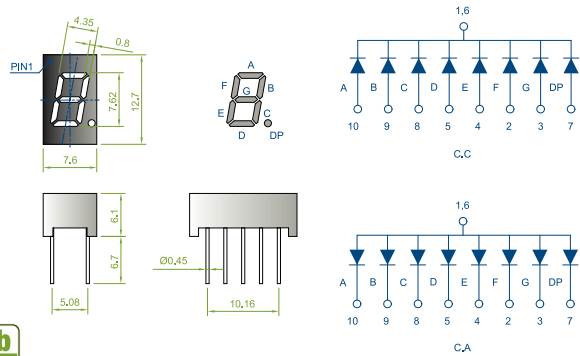
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$ / $I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-3121AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOS-3121AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-3121AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-3121AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-3104

0.30" Single Digit Display



**Features**

- 0.30 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

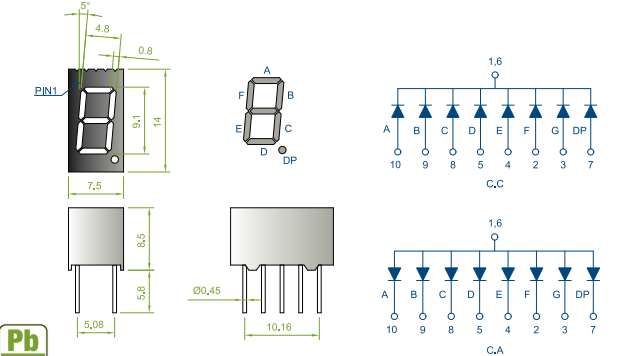
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$ / $I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-3104AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOS-3104AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-3104AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-3104AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-3161

0.36" Single Digit Display



**Features**

- 0.36 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

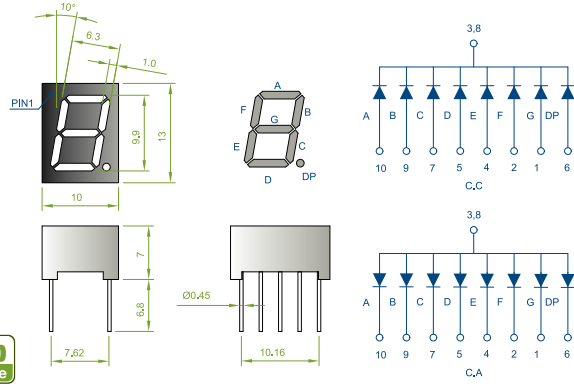
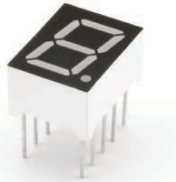
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$ / $I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-3161AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOS-3161AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-3161AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-3161AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-3191

0.39" Single Digit Display



**Features**

- 0.39 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

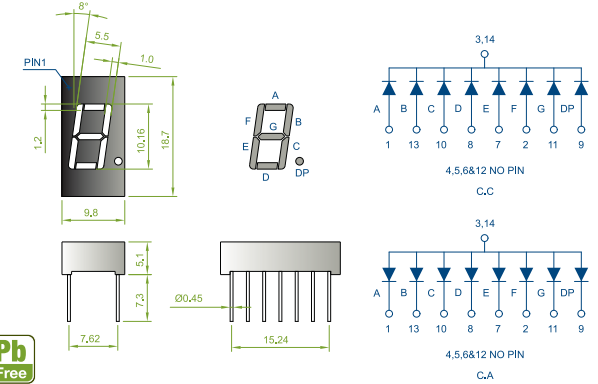
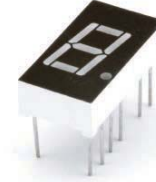
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-3191AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-3191AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-3191AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-3191AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-4102

0.40" Single Digit Display



**Features**

- 0.40 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

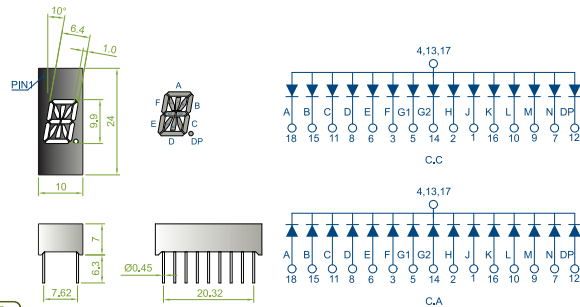
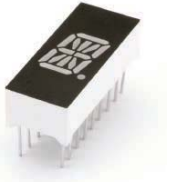
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-4102AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-4102AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-4102AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-4102AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-3192

0.39" Single Digit Display  
Alphanumeric



**Features**

- 0.39 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

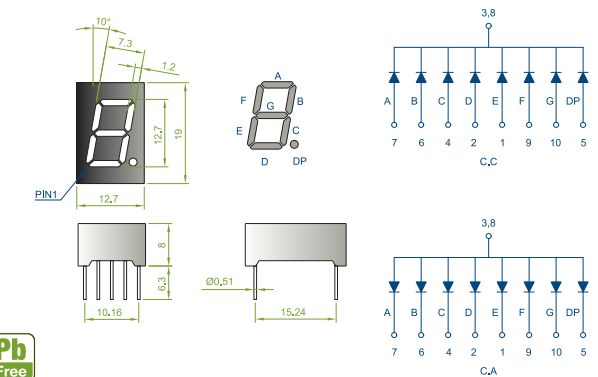
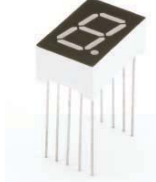
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-3192AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-3192AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-3192AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-3192AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-5101

0.50" Single Digit Display



**Features**

- 0.50 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

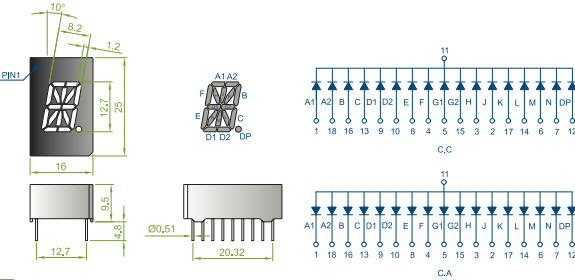
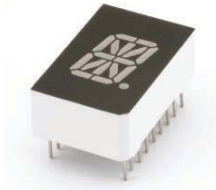
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-5101AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-5101AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-5101AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-5101AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-5105

0.50" Single Digit Display  
Alphanumeric



**Features**

- 0.50 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



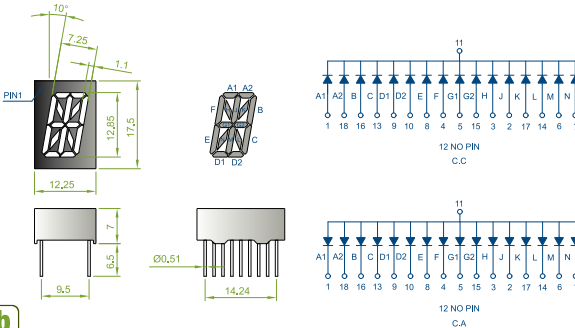
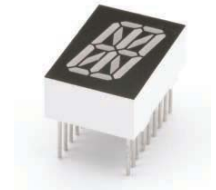
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOS-5105AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A		
TOS-5105AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOS-5105AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOS-5105AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOS-5106

0.50" Single Digit Display  
Alphanumeric



**Features**

- 0.50 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



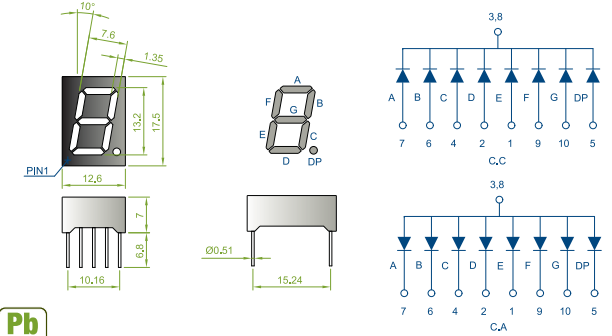
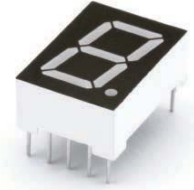
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOS-5106AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A		
TOS-5106AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOS-5106AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOS-5106AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOS-5121

0.52" Single Digit Display



**Features**

- 0.52 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



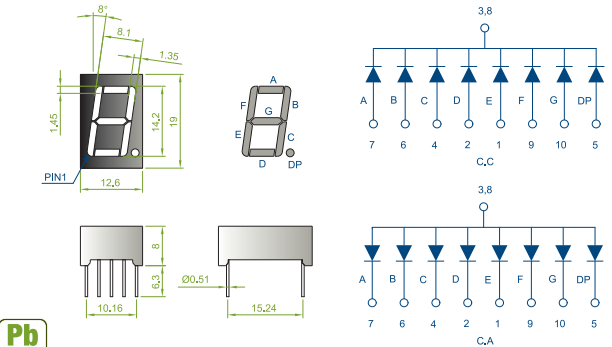
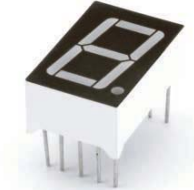
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOS-5121AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A		
TOS-5121AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOS-5121AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOS-5121AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOS-5161

0.56" Single Digit Display



**Features**

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



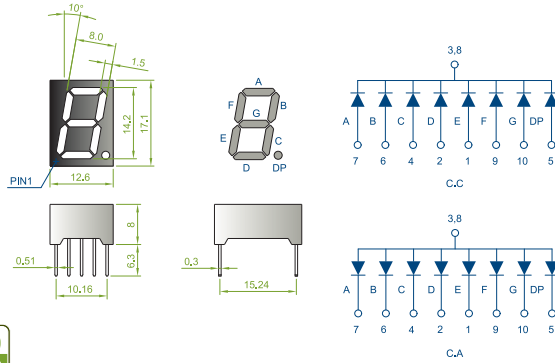
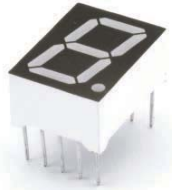
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOS-5161AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A		
TOS-5161AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOS-5161AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOS-5161AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOS-5165

0.56" Single Digit Display



**Features**

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



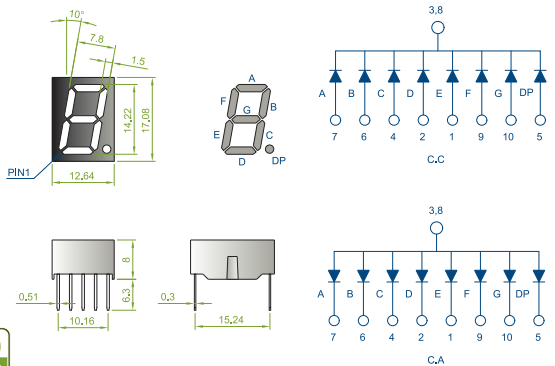
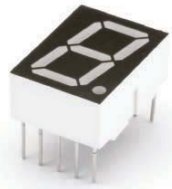
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-5165AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-5165AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-5165AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-5165AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-5166

0.56" Single Digit Display



**Features**

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



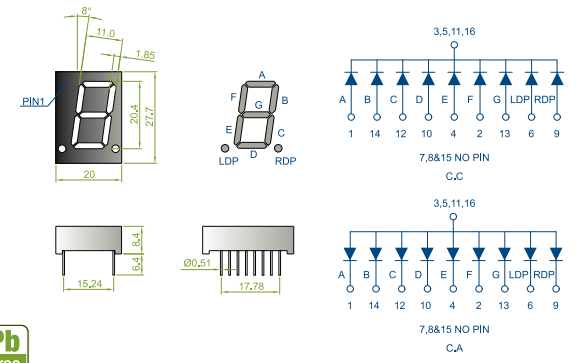
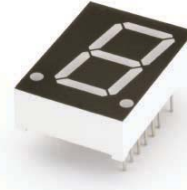
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-5166AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-5166AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-5166AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-5166AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-8102

0.80" Single Digit Display



**Features**

- 0.80 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



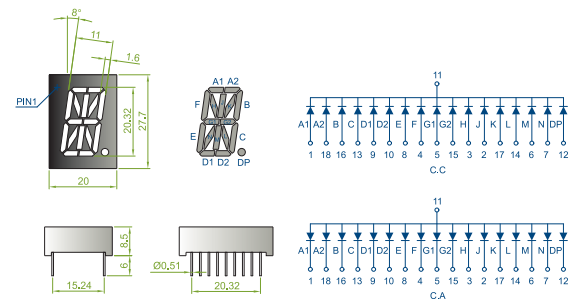
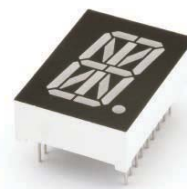
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-8102AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-8102AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-8102AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-8102AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-8103

0.80" Single Digit Display  
Alphanumeric



**Features**

- 0.80 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



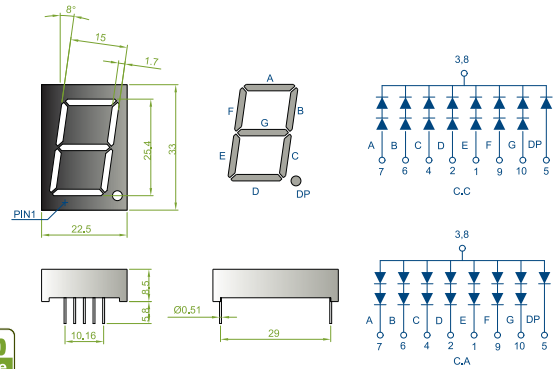
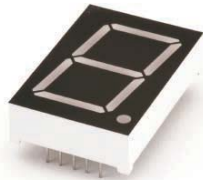
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-8103AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-8103AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-8103AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-8103AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-1102

1.0" Single Digit Display



**Features**

- 1.0 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

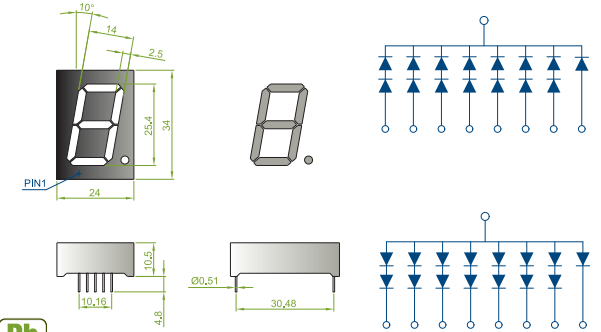
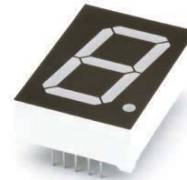
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-1102AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-1102AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-1102AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-1102AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-1106

1.0" Single Digit Display



**Features**

- 1.0 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

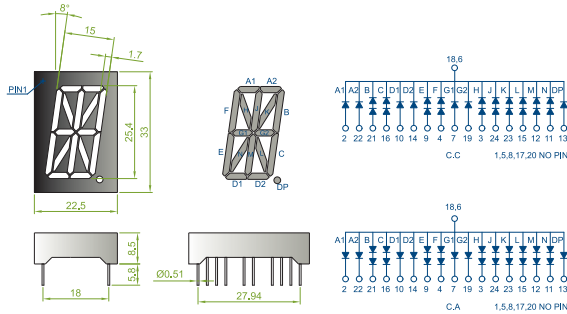
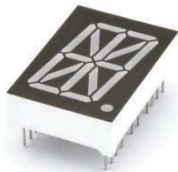
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-1106AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-1106AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-1106AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-1106AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-1103

1.0" Single Digit Display  
Alphanumeric



**Features**

- 1.0 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

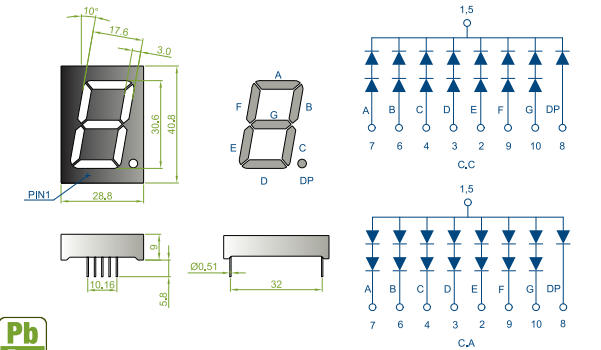
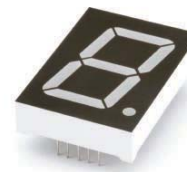
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-1103AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-1103AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-1103AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-1103AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524					

## TOS-12101

1.2" Single Digit Display



**Features**

- 1.2 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

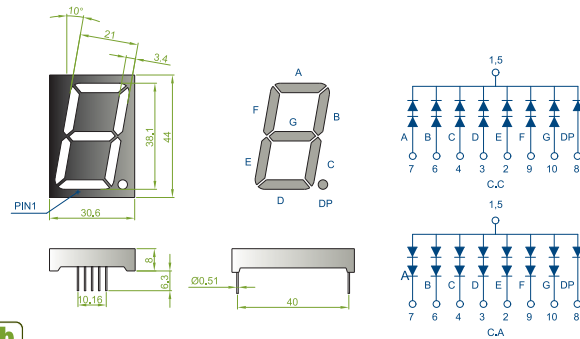
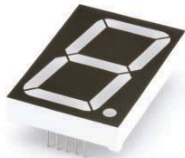


Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA				I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA				Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	MAX.	MIN.	TYP.	
TOS-12101AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A				
TOS-12101AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524					
TOS-12101AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937					
TOS-12101AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524					



## TOS-15102

1.5" Single Digit Display



**Features**

- 1.5 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



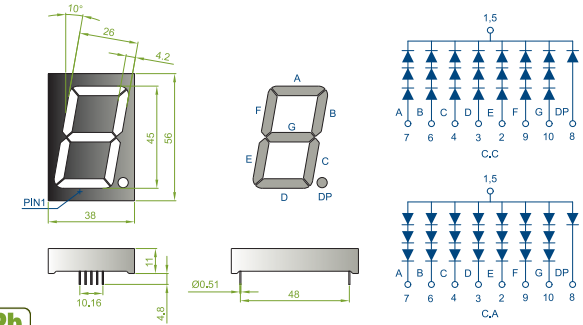
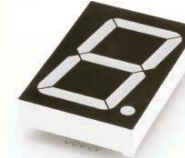
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-15102AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-15102AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-15102AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-15102AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-18102

1.8" Single Digit Display



**Features**

- 1.8 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



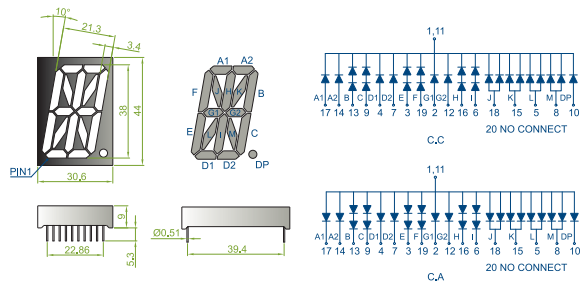
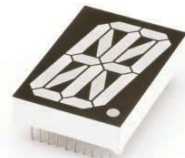
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-18102AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-18102AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-18102AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-18102AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-15103

1.5" Single Digit Display  
Alphanumeric



**Features**

- 1.5 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



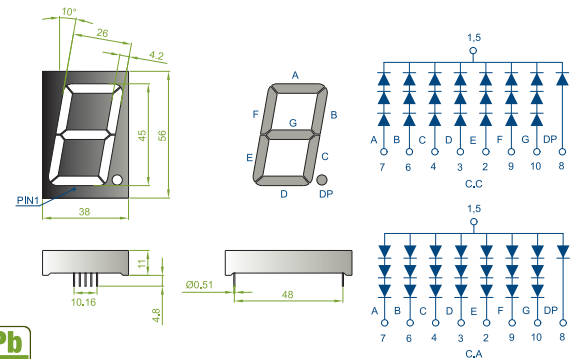
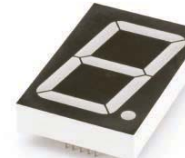
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-15103AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-15103AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-15103AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-15103AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-18104

1.8" Single Digit Display



**Features**

- 1.8 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



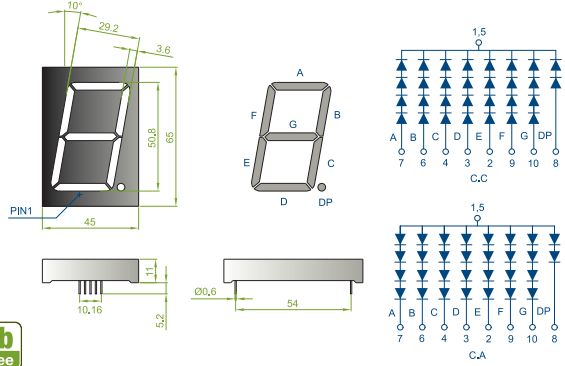
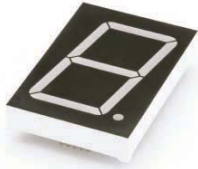
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-18104AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-18104AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-18104AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-18104AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-20101

2.0" Single Digit Display



**Features**

- 2.0 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

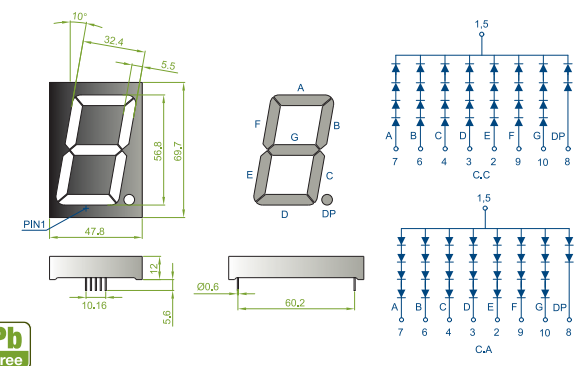
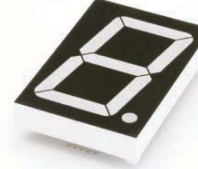
- Medical and Industrial Equipments
- Cashier Machine and billboard
- Consumer and Gaming Electronics application
- Home appliance
- Customization Product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$		$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-20101AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-20101AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-20101AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-20101AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-23101

2.3" Single Digit Display



**Features**

- 2.3 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

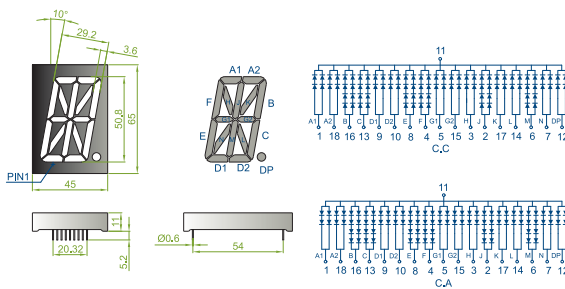
- Medical and Industrial Equipments
- Cashier Machine and billboard
- Consumer and Gaming Electronics application
- Home appliance
- Customization Product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$		$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-23101AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-23101AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-23101AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-23101AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-20102

2.0" Single Digit Display  
Alphanumeric



**Features**

- 2.0 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

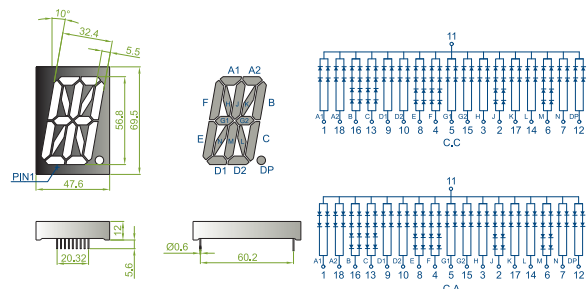
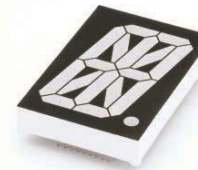
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$		$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-20102AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-20102AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-20102AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-20102AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-23102

2.3" Single Digit Display  
Alphanumeric



**Features**

- 2.3 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

- Medical and Industrial Equipments
- Cashier Machine and billboard
- Consumer and Gaming Electronics application
- Home appliance
- Customization Product

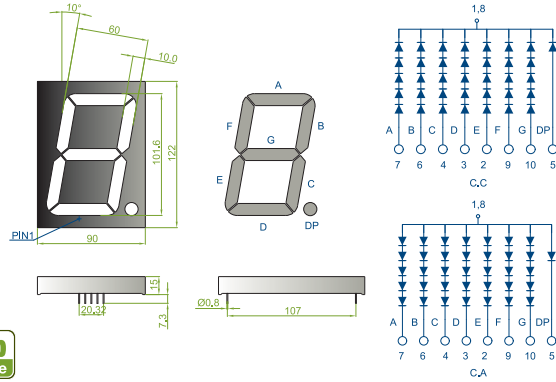
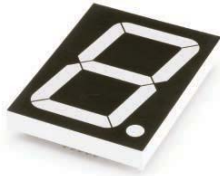


Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$		$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-23102AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-23102AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-23102AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-23102AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	



# TOS-40101

4.0" Single Digit Display



**Features**

- 4.0 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

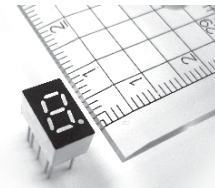
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



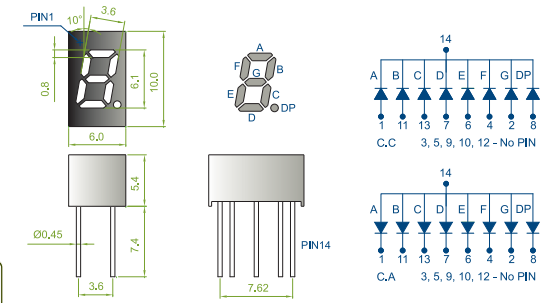
Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-40101AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-40101AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-40101AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-40101AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

# TOS-2141

0.24" Single Digit Display



**EXTRA MINI-SIZE DISPLAY**



**Features**

- 0.24 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

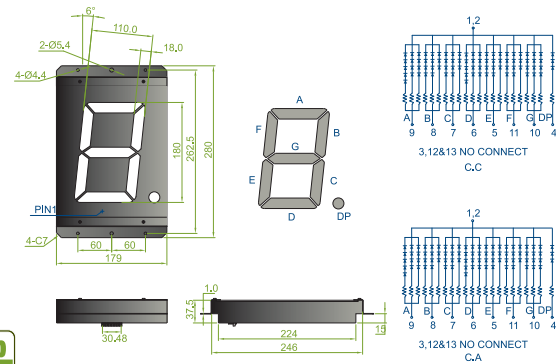
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-2141AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	2501	5435	C.C/C.A
TOS-2141AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	4726	9185	
TOS-2141AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-2141AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	4726	9185	

# TOS-70101

7.0" Single Digit Display



**Features**

- 7.0 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

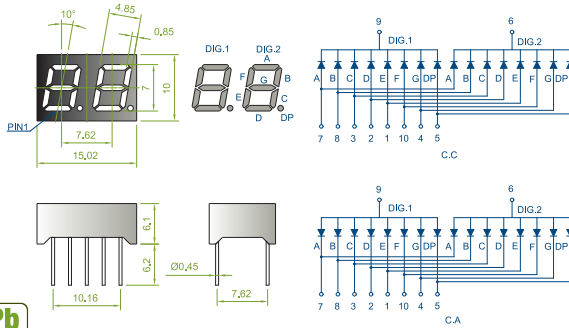
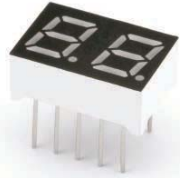
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-70101AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOS-70101AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-70101AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-70101AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

### TOD-2281

0.28" Dual Digit Display



**Features**

- 0.28 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

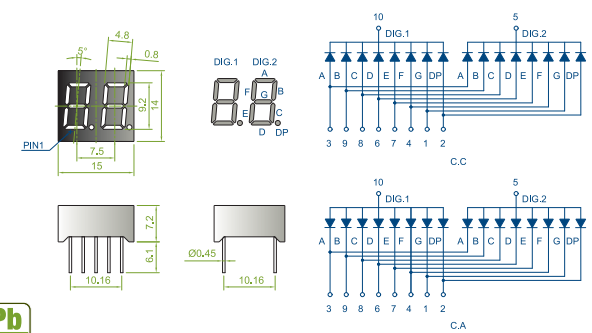
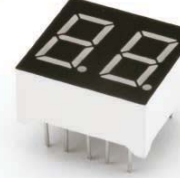
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOD-2281AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A		
TOD-2281AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOD-2281AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOD-2281AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOD-3261

0.36" Dual Digit Display



**Features**

- 0.36 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

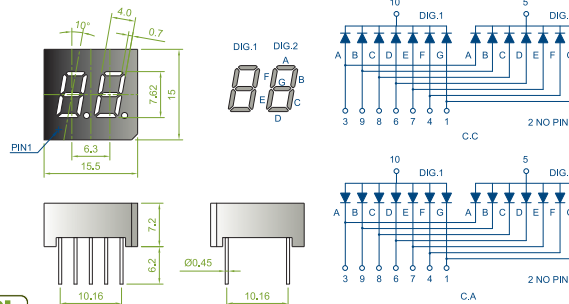
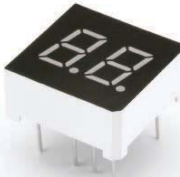
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOD-3261AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A		
TOD-3261AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOD-3261AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOD-3261AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOD-3203

0.30" Dual Digit Display



**Features**

- 0.30 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

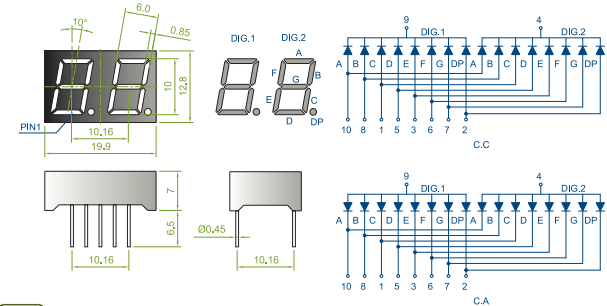
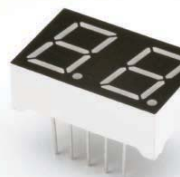
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOD-3202AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A		
TOD-3202AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOD-3202AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOD-3202AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOD-3291

0.39" Dual Digit Display



**Features**

- 0.39 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

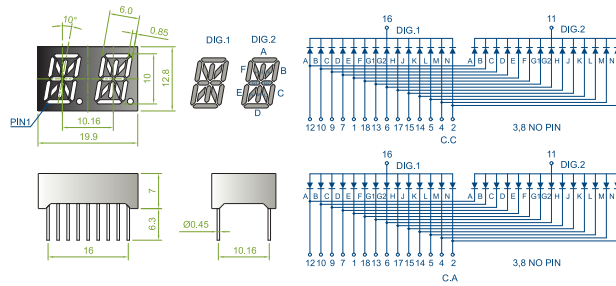
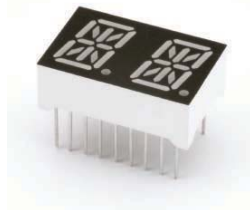
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOD-3291AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A		
TOD-3291AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOD-3291AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOD-3291AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOD-3292

0.39" Dual Digit Display  
Alphanumeric



**Features**

- 0.39 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



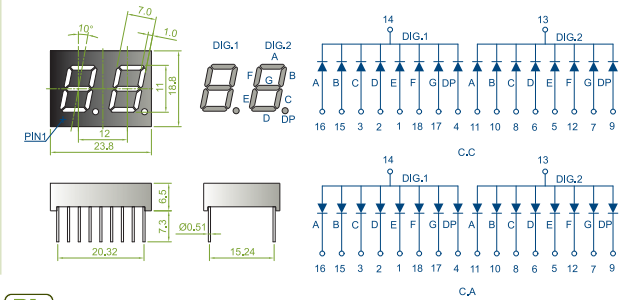
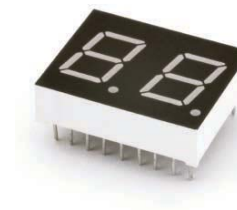
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-3292AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOD-3292AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-3292AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-3292AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-4231

0.43" Dual Digit Display



**Features**

- 0.43 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



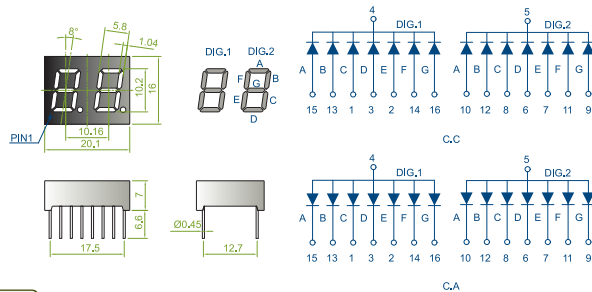
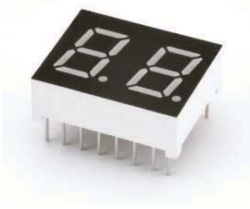
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-4231AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOD-4231AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-4231AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-4231AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-4201

0.40" Dual Digit Display



**Features**

- 0.40 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



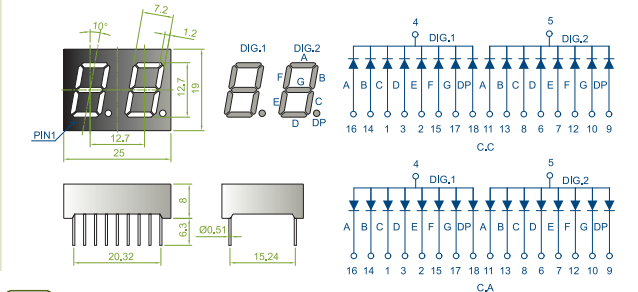
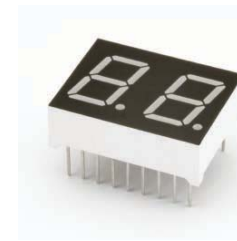
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-4201AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOD-4201AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-4201AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-4201AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-5202

0.50" Dual Digit Display



**Features**

- 0.50 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



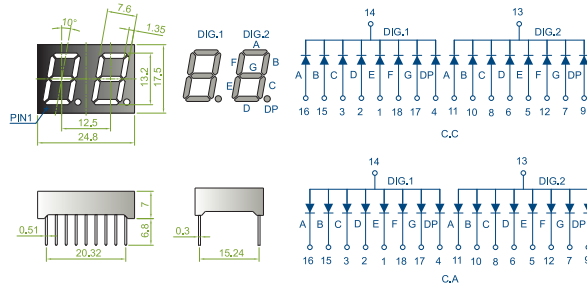
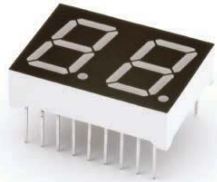
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-5202AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOD-5202AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-5202AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-5202AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-5221

0.52" Dual Digit Display



### Features

- 0.52 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



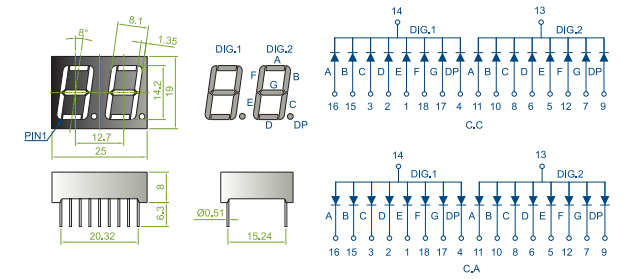
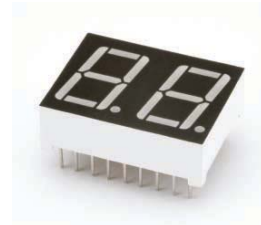
### Application

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-5221AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOD-5221AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-5221AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-5221AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-5261

0.56" Dual Digit Display



### Features

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



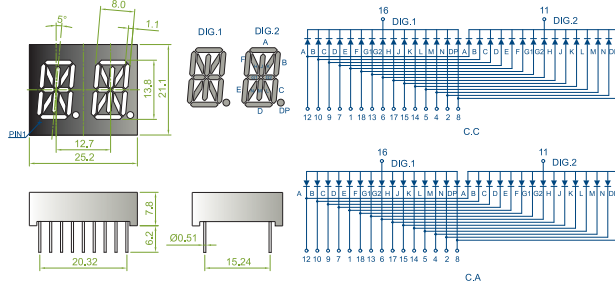
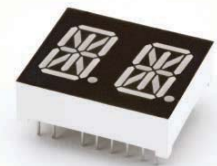
### Application

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-5261AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOD-5261AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-5261AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-5261AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-5241

0.54" Dual Digit Display  
Alphanumeric



### Features

- 0.54 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



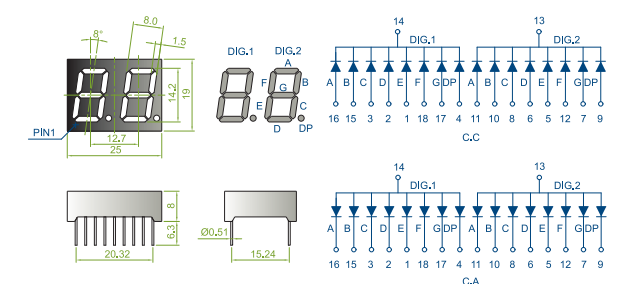
### Application

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-5241AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOD-5241AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-5241AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-5241AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-5263

0.56" Dual Digit Display



### Features

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



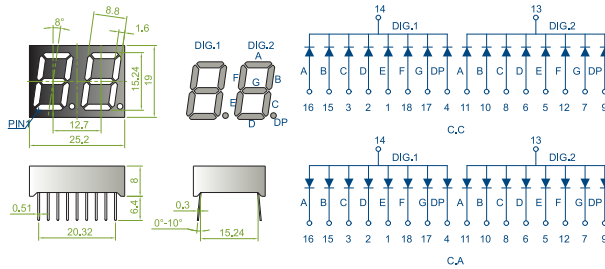
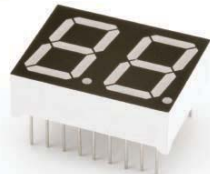
### Application

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-5263AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOD-5263AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-5263AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-5263AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-6201

0.60" Dual Digit Display



**Features**

- 0.60 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

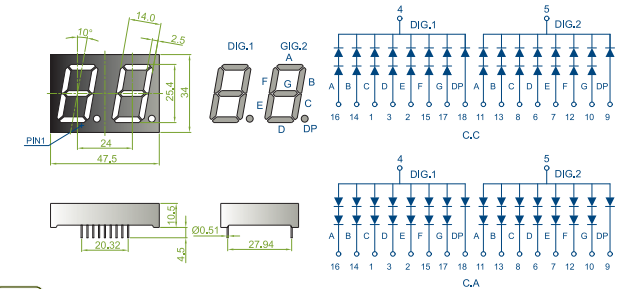
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-6201AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOD-6201AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-6201AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-6201AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-10201

1.00" Dual Digit Display



**Features**

- 1.0 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

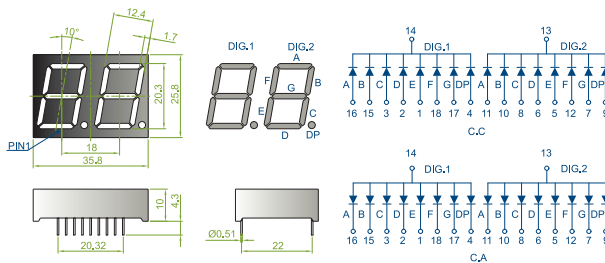
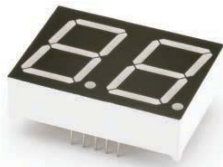
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-10201AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOD-10201AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-10201AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-10201AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-8201

0.80" Dual Digit Display



**Features**

- 0.80 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

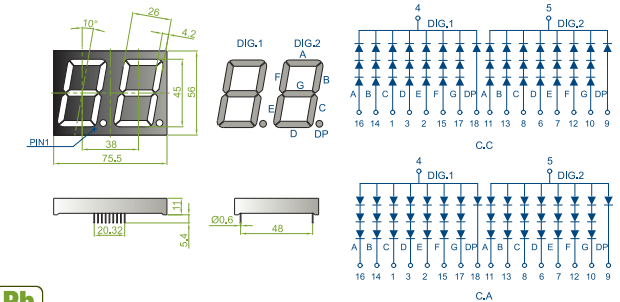
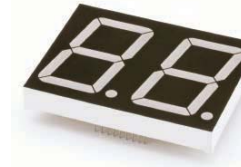
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-8201AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOD-8201AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-8201AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-8201AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-18201

1.80" Dual Digit Display



**Features**

- 1.80 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

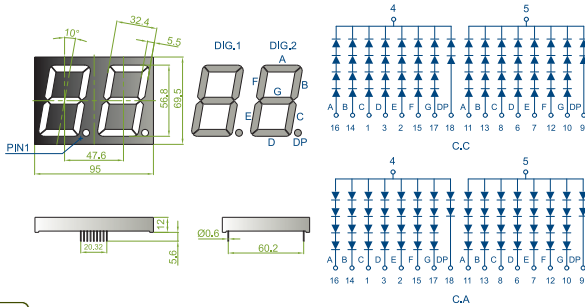


Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-18201AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOD-18201AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-18201AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-18201AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	



## TOD-23201

2.30" Dual Digit Display



**Features**

- 2.3 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



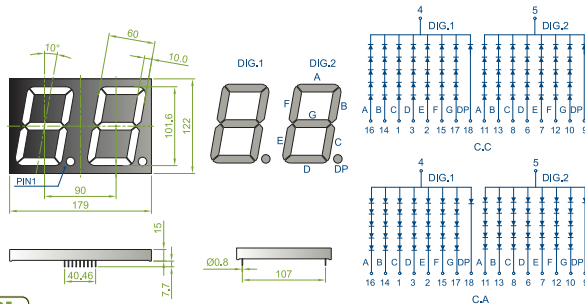
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-23201AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOD-23201AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOD-23201AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOD-23201AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOD-40201

4.00" Dual Digit Display



**Features**

- 4.00 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



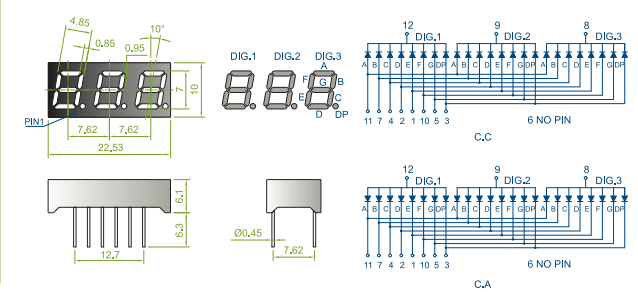
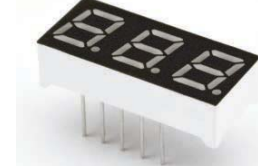
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOD-40201AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	10383	C.C/C.A
TOD-40201AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	11941	
TOD-40201AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	15524	
TOD-40201AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	11941	

## TOT-2381

0.28" Triple Digit Display



**Features**

- 0.28 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



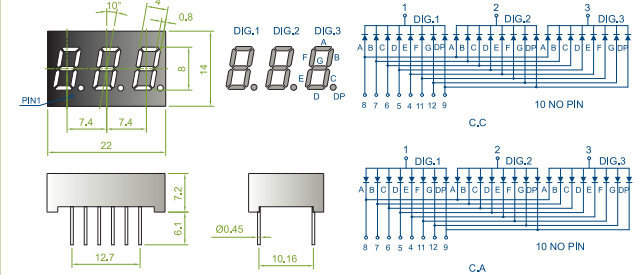
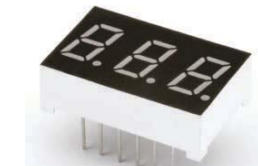
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOT-2381AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOT-2381AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOT-2381AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOT-2381AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOT-3301

0.30" Triple Digit Display



**Features**

- 0.30 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



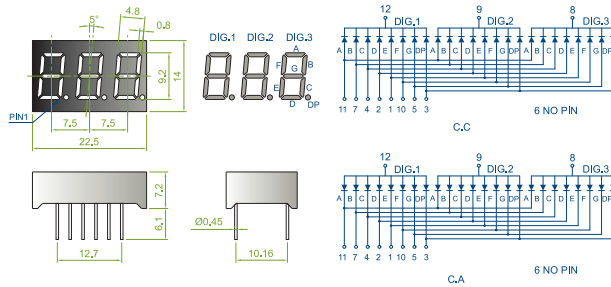
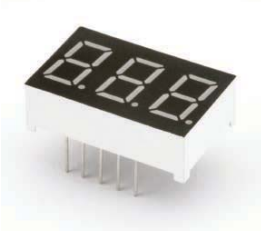
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOT-3301AMG/BMG	AlGalnP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOT-3301AMY/BMY	AlGalnP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOT-3301AME/BME	AlGalnP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOT-3301AMR/BMR	AlGalnP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOT-3361

0.36" Triple Digit Display



**Features**

- 0.36 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

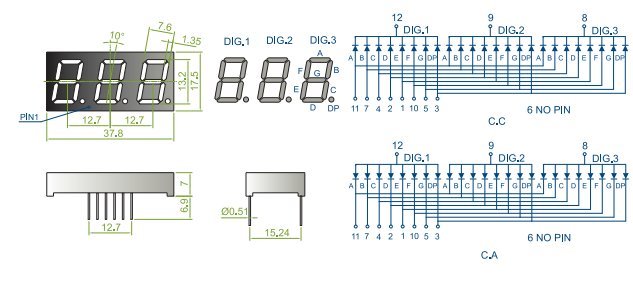
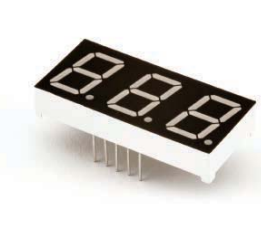
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOT-3361AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOT-3361AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOT-3361AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOT-3361AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOT-5321

0.52" Triple Digit Display



**Features**

- 0.52 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

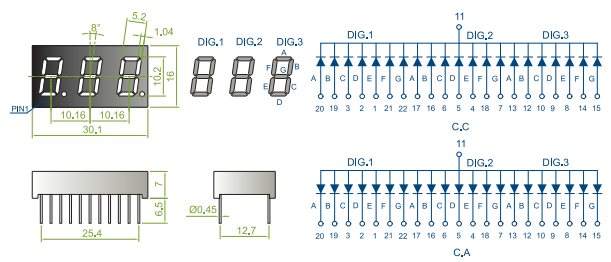
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOT-5321AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOT-5321AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOT-5321AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOT-5321AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOT-4301

0.40" Triple Digit Display



**Features**

- 0.40 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

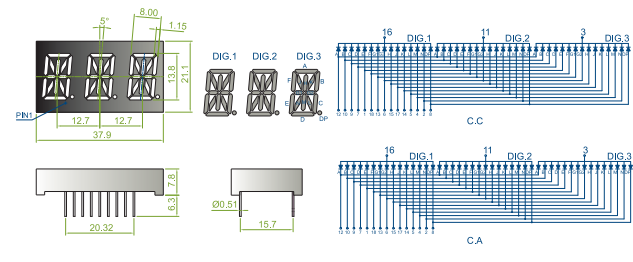
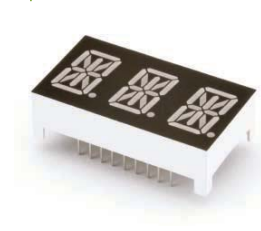
- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product



Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOT-4301AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOT-4301AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOT-4301AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOT-4301AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOT-5341

0.54" Triple Digit Display  
Alphanumeric



**Features**

- 0.54 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

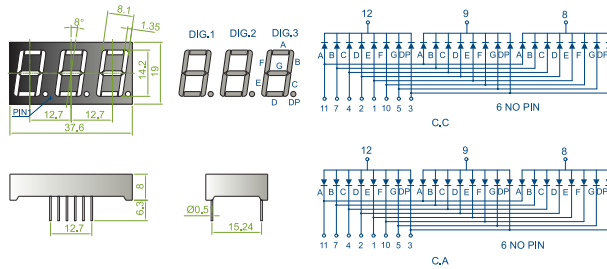
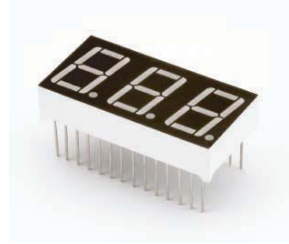


Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOT-5341AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOT-5341AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOT-5341AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOT-5341AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	



### TOT-5361

0.56" Triple Digit Display



**Features**

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



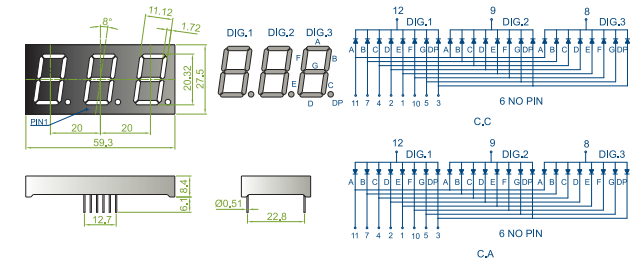
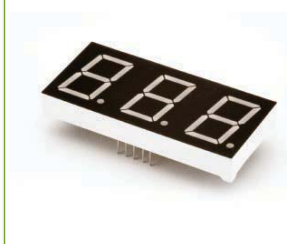
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOT-5361AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C,C/C,A
TOT-5361AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOT-5361AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOT-5361AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

### TOT-8302

0.80" Triple Digit Display



**Features**

- 0.80 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



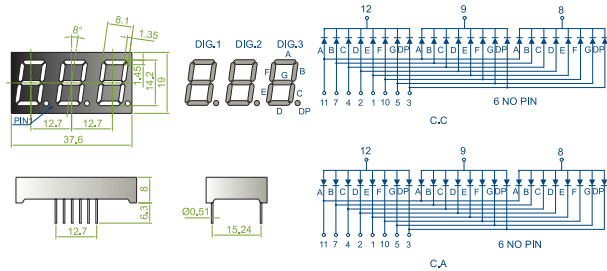
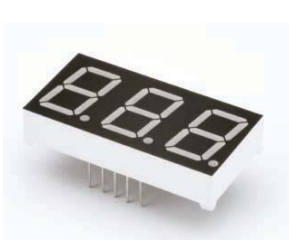
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOT-8302AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C,C/C,A
TOT-8302AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOT-8302AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOT-8302AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

### TOT-5363

0.56" Triple Digit Display



**Features**

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



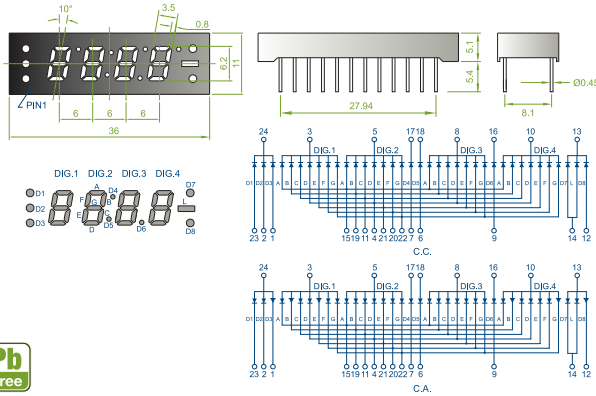
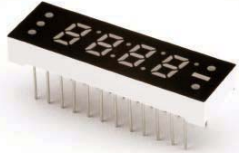
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOT-5363AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C,C/C,A
TOT-5363AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOT-5363AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOT-5363AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-2451

0.25" Four Digit Display



**Features**

- 0.25 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



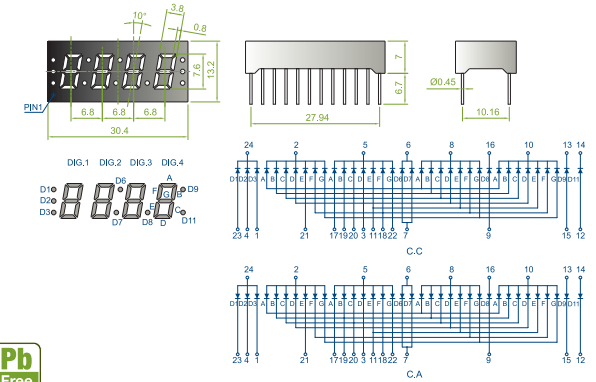
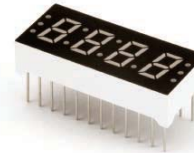
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$		$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-2451AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOF-2451AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-2451AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-2451AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-3407

0.30" Four Digit Display



**Features**

- 0.30 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



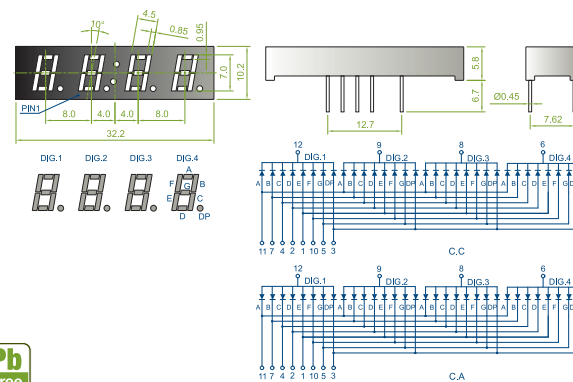
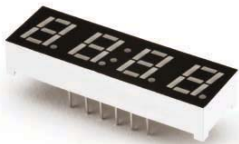
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$		$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-3407AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOF-3407AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-3407AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-3407AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-2481

0.28" Four Digit Display



**Features**

- 0.28 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



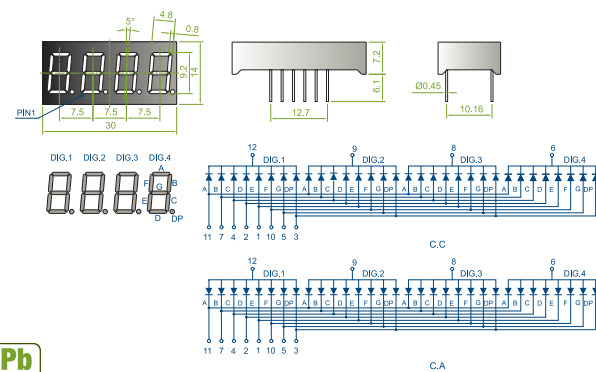
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$		$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-2481AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOF-2481AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-2481AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-2481AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-3461

0.36" Four Digit Display



**Features**

- 0.36 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



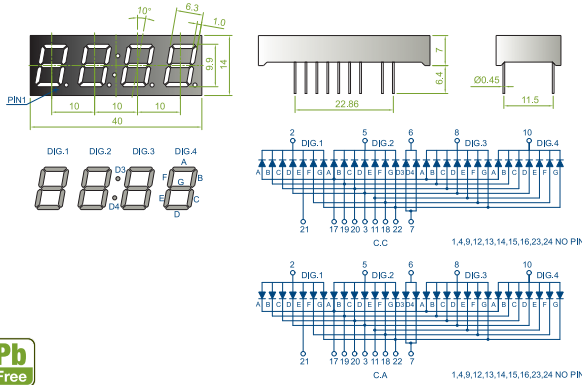
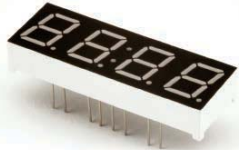
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$		$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-3461AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOF-3461AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-3461AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-3461AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-3491

0.39" Four Digit Display



**Features**

- 0.39 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



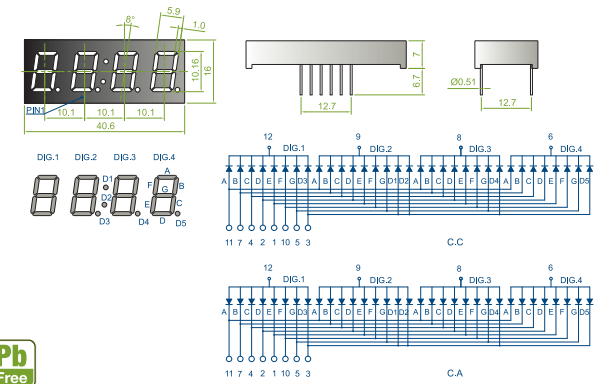
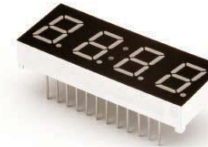
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-3491AMG/BMG	AlGaNp	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOF-3491AMY/BMY	AlGaNp	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-3491AME/BME	AlGaNp	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-3491AMR/BMR	AlGaNp	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-4403

0.40" Four Digit Display



**Features**

- 0.40 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



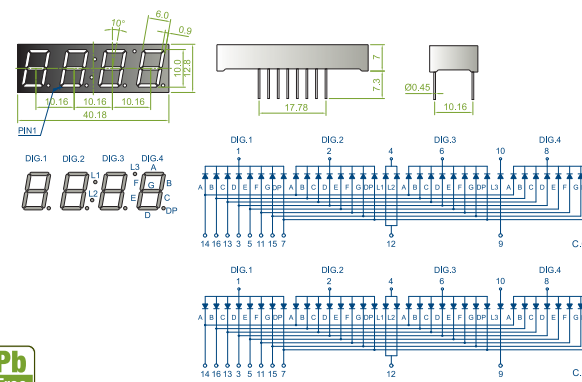
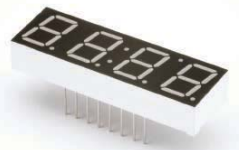
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-4403AMG/BMG	AlGaNp	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOF-4403AMY/BMY	AlGaNp	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-4403AME/BME	AlGaNp	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-4403AMR/BMR	AlGaNp	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-3492

0.39" Four Digit Display



**Features**

- 0.39 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



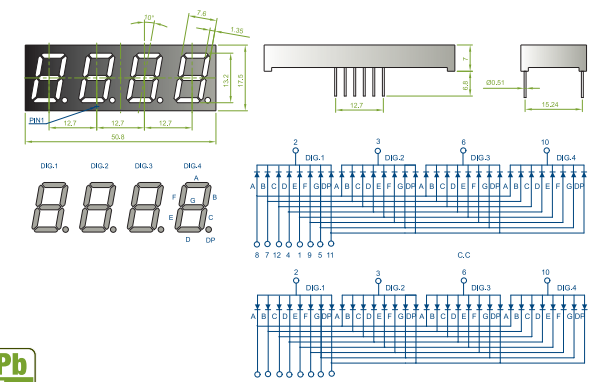
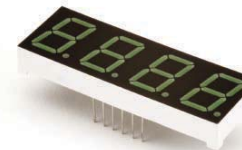
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-3492AMG/BMG	AlGaNp	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOF-3492AMY/BMY	AlGaNp	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-3492AME/BME	AlGaNp	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-3492AMR/BMR	AlGaNp	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-5421

0.52" Four Digit Display



**Features**

- 0.52 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



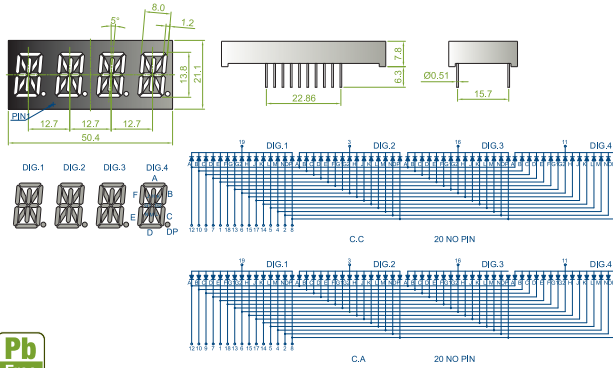
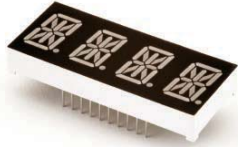
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	V <sub>f</sub> (V) at I <sub>f</sub> =20mA		I <sub>f</sub> (μcd) at I <sub>f</sub> =10mA		Drive Mode
	Material	Emitted Color	λ <sub>e</sub> (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-5421AMG/BMG	AlGaNp	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A
TOF-5421AMY/BMY	AlGaNp	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-5421AME/BME	AlGaNp	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-5421AMR/BMR	AlGaNp	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-5441

0.54" Four Digit Display  
Alphanumeric



**Features**

- 0.54 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



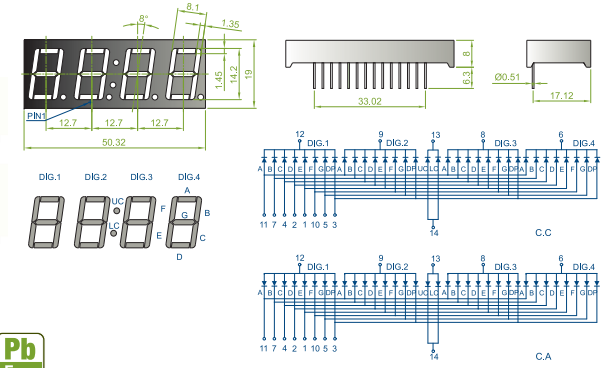
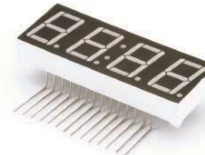
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOF-5441AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A		
TOF-5441AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOF-5441AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOF-5441AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOF-5462

0.56" Four Digit Display



**Features**

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



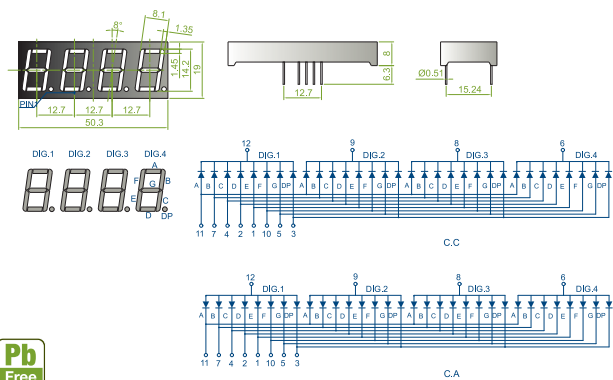
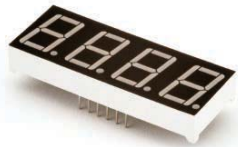
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOF-5462AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A		
TOF-5462AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOF-5462AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOF-5462AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOF-5461

0.56" Four Digit Display



**Features**

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



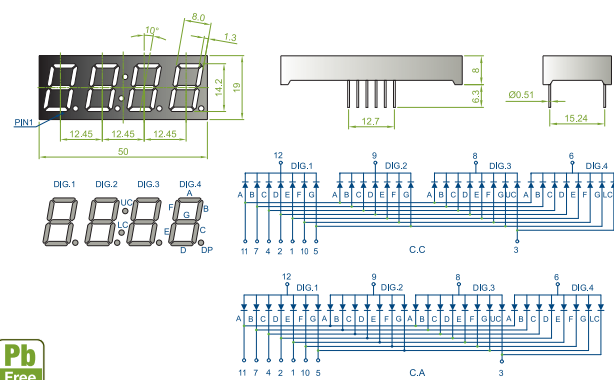
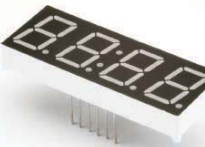
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOF-5461AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A		
TOF-5461AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOF-5461AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOF-5461AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOF-5465

0.56" Four Digit Display



**Features**

- 0.56 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



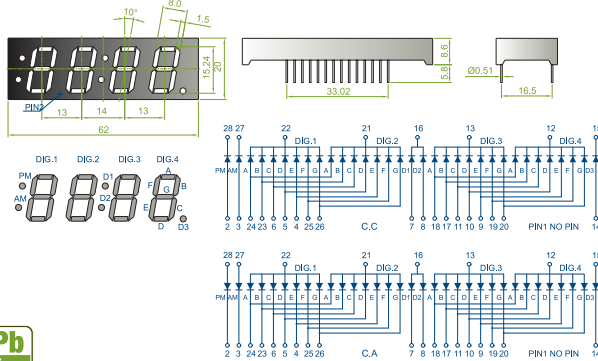
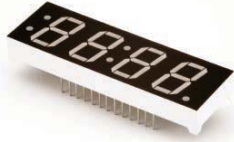
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.		
TOF-5465AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A		
TOF-5465AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOF-5465AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOF-5465AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOF-6408

0.60" Four Digit Display



**Features**

- 0.60 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



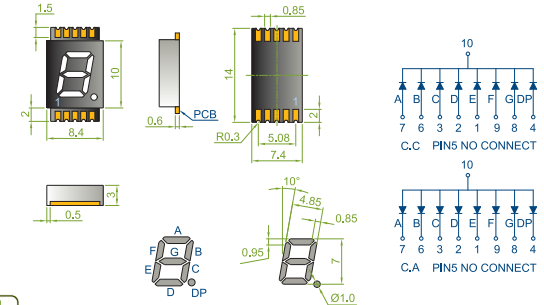
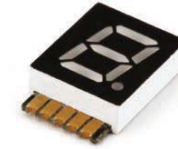
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-6408AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOF-6408AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-6408AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-6408AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-F2181

0.28" Single Digit SMD Display



**Features**

- 0.28 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Thinner than traditional display



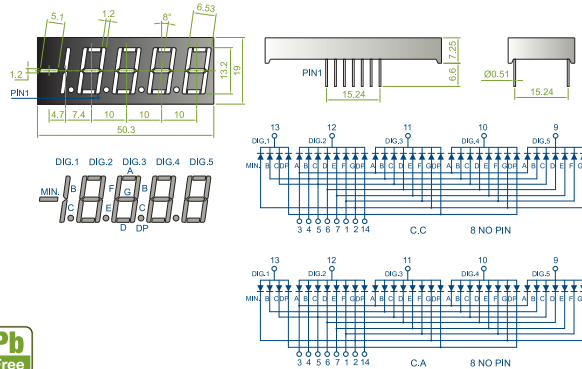
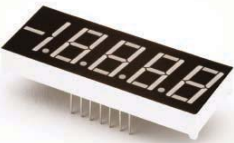
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-F2181AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOS-F2181AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-F2181AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-F2181AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOF-5521

0.52" Five Digit Display



**Features**

- 0.52 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility



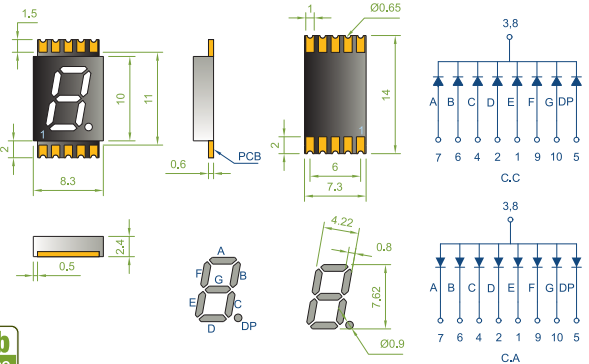
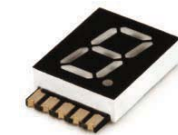
**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOF-5521AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOF-5521AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOF-5521AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOF-5521AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOS-F3102

0.30" Single Digit SMD Display



**Features**

- 0.30 inch digit height
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Thinner than traditional display



**Application**

- Medical and industrial equipments
- Cashier machine and billboard
- Consumer and gaming electronics application
- Home appliance display application
- Customization product

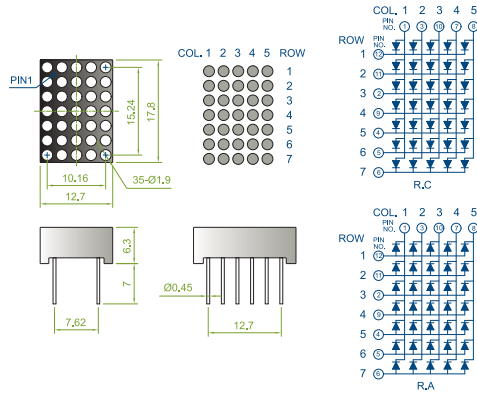
Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOS-F3102AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C./C.A
TOS-F3102AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOS-F3102AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOS-F3102AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	





## TOM-757

5x7 Ø1.9 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

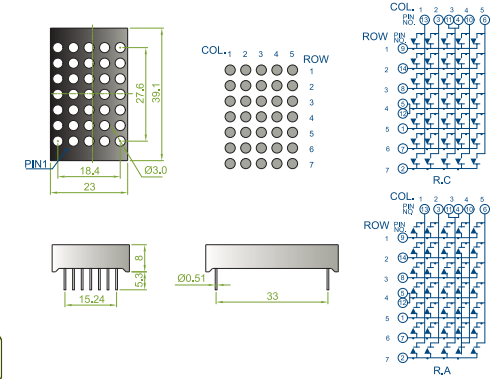
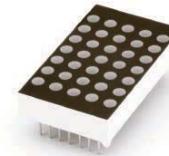
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-757AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A
TOM-757AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-757AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-757AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOM-1057

5x7 Ø3.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

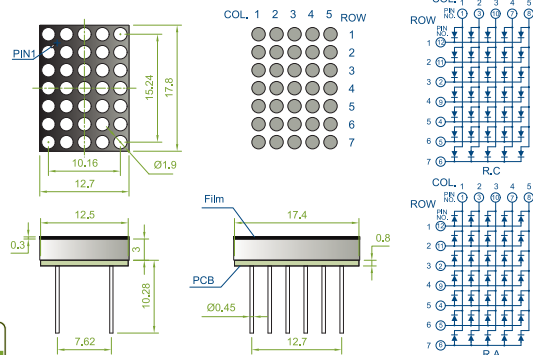
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-1057AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A
TOM-1057AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-1057AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-1057AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOM-D757

5x7 Ø1.9 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

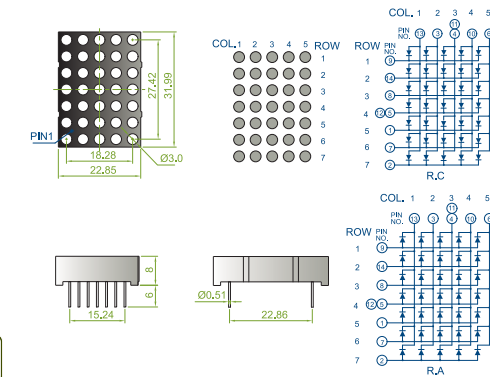
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-D757AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A
TOM-D757AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-D757AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-D757AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOM-1157

5x7 Ø3.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

- Electronic marquee
- Commercial signboard
- Customization product

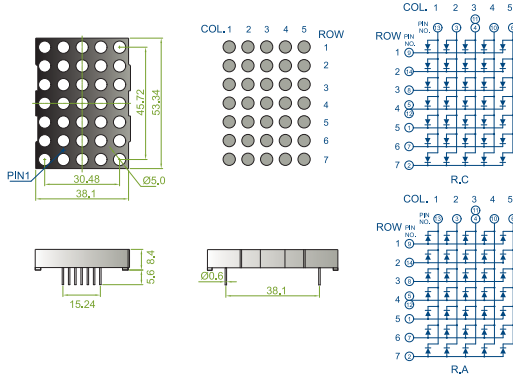


Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-1157AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A
TOM-1157AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-1157AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-1157AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	



## TOM-2057

5x7 Ø5.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

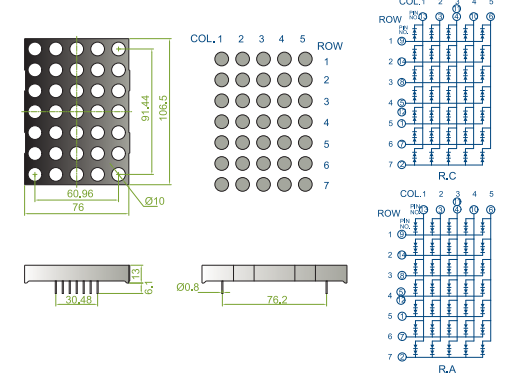
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-2057AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R,C/R,A
TOM-2057AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-2057AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-2057AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOM-4057

5x7 Ø10.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

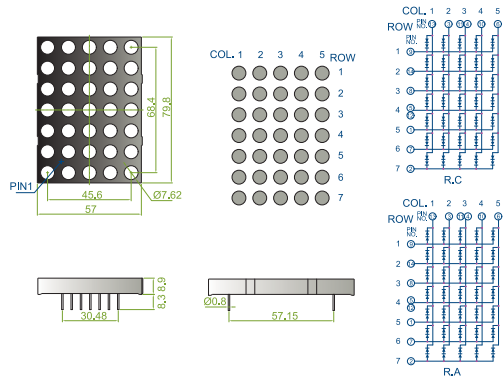
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-4057AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R,C/R,A
TOM-4057AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-4057AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-4057AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOM-3057

5x7 Ø7.62 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

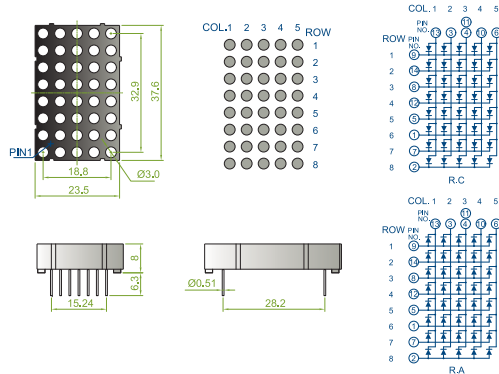
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-3057AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R,C/R,A
TOM-3057AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-3057AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-3057AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOM-1058

5x8 Ø3.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

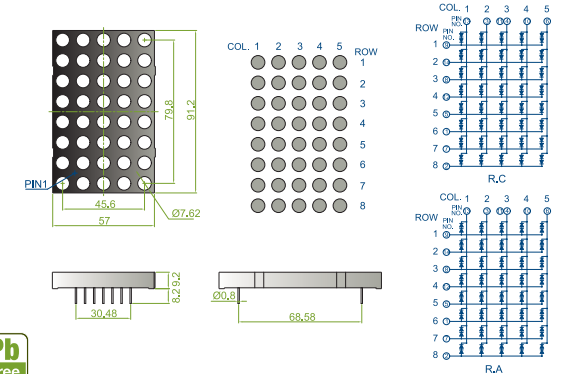
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-1058AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-1058AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-1058AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-1058AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOM-3058

5x8 Ø7.62 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

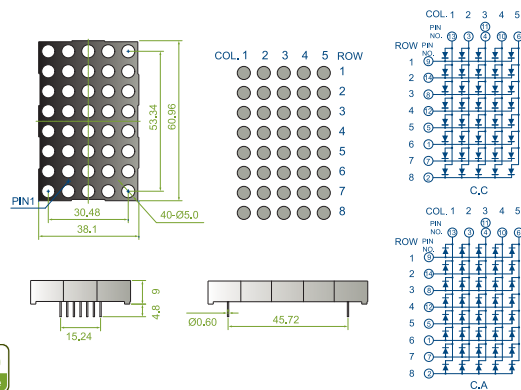
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-3058AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-3058AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-3058AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-3058AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOM-2058

5x8 Ø5.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and Video Display

**Application**

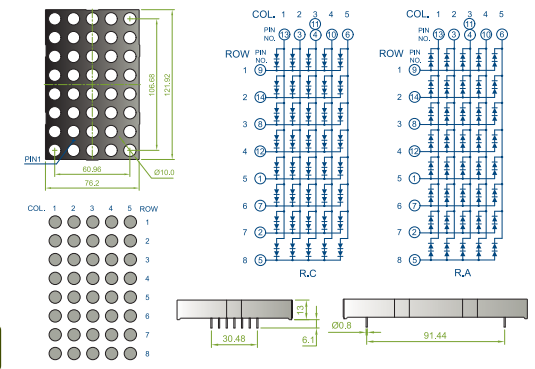
- Electronic Marquee
- Commercial Signboard
- Customization Product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-2058AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-2058AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-2058AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-2058AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOM-4058

5x8 Ø10.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

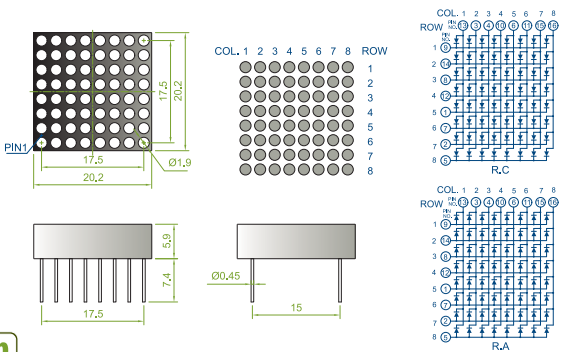
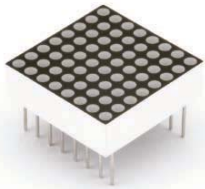
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-4058AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-4058AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-4058AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-4058AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOM-788

8x8 Ø1.9 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

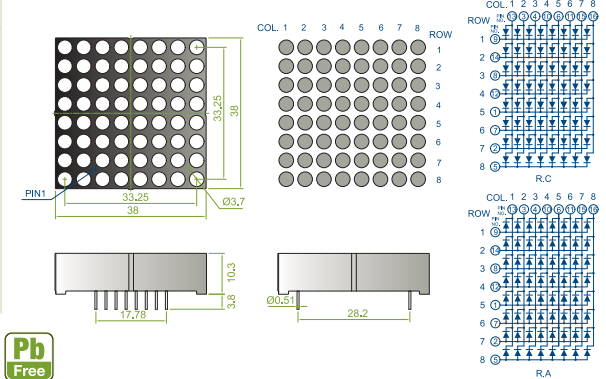
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_v$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-788AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A
TOM-788AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-788AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-788AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOM-1588

8x8 Ø3.7 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

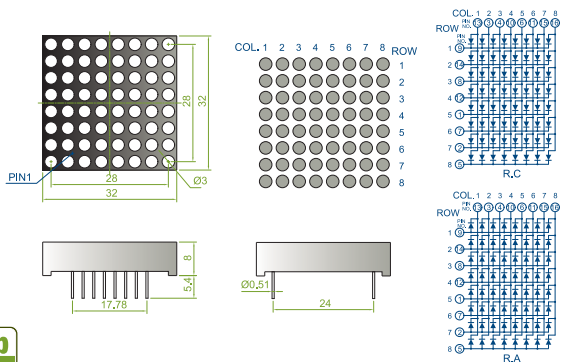
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_v$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-1588AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A
TOM-1588AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-1588AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-1588AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOM-1088

8x8 Ø3.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

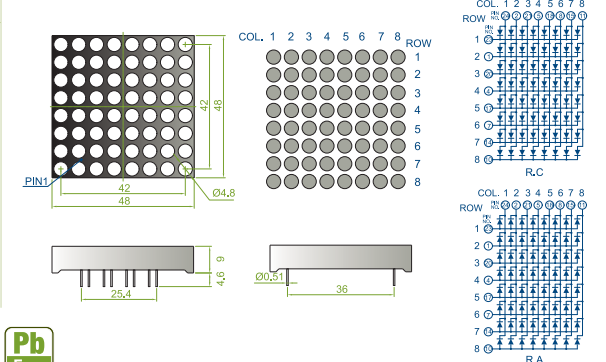
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_v$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-1088AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A
TOM-1088AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-1088AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-1088AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

## TOM-1988

8x8 Ø4.8 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

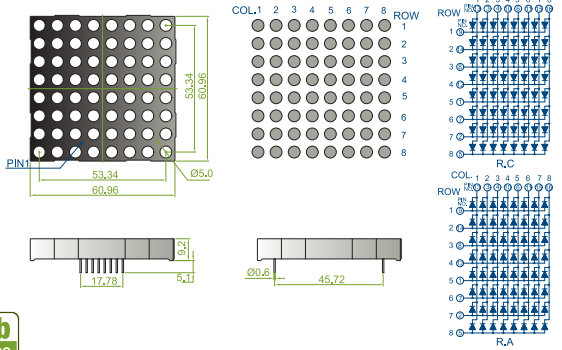
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$		$I_v$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	
TOM-1988AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A
TOM-1988AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524	
TOM-1988AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937	
TOM-1988AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524	

### TOM-2088

8x8 Ø5.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

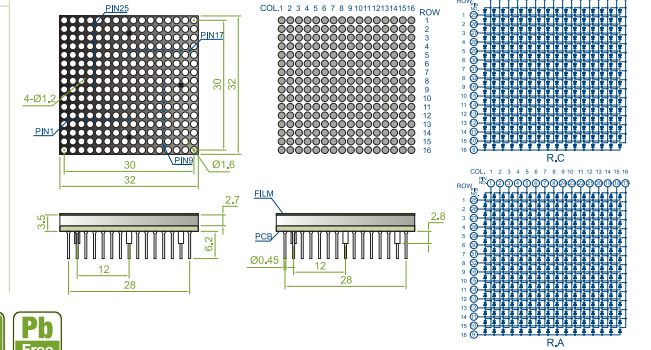
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-2088AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-2088AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-2088AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-2088AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOM-D1216

16x16 Ø1.6 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

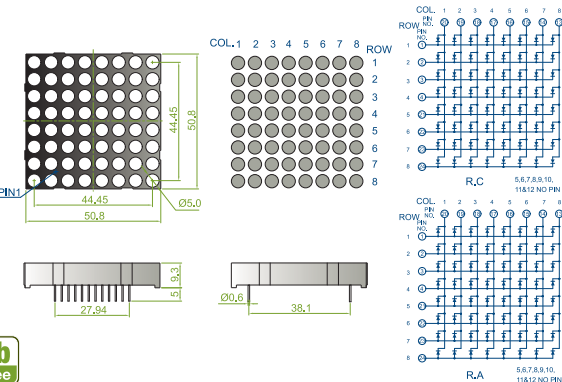
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-D1216AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-D1216AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-D1216AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-D1216AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOM-5188

8x8 Ø5.0 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

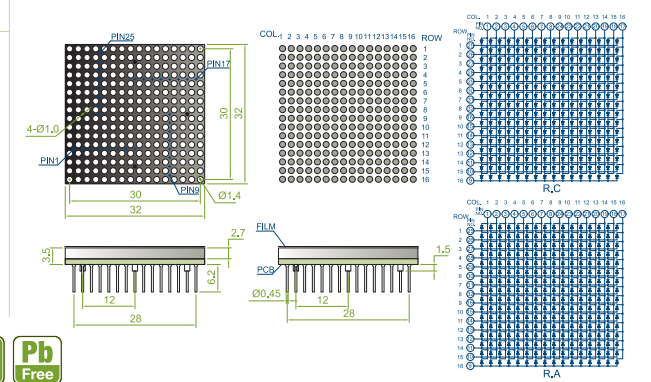
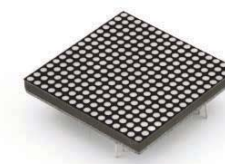
- Electronic marquee
- Commercial signboard
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-5188AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-5188AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-5188AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-5188AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOM-D1316

16x16 Ø1.4 Dot Matrix Display



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

**Application**

- Electronic marquee
- Commercial signboard
- Customization product

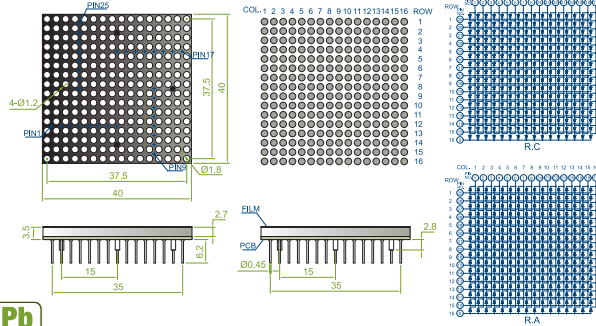


Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20mA$				$I_f$ ( $\mu$ cd) at $I_f=10mA$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-D1316AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-D1316AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-D1316AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-D1316AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			



## TOM-D1516

16x16 Ø1.8 Dot Matrix Display



### Features

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

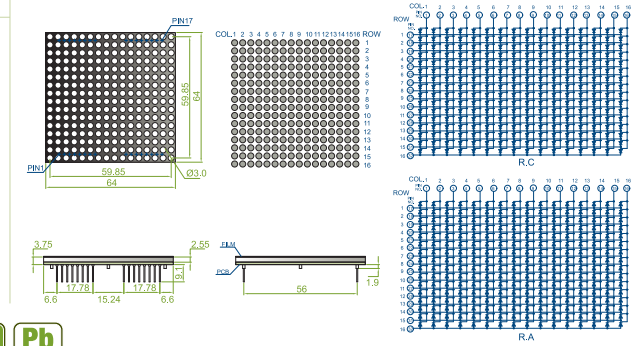
### Application

- Electronic marquee
- Commercial signboard
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-D1516AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-D1516AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-D1516AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-D1516AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOM-D2516

16x16 Ø3.0 Dot Matrix Display



### Features

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

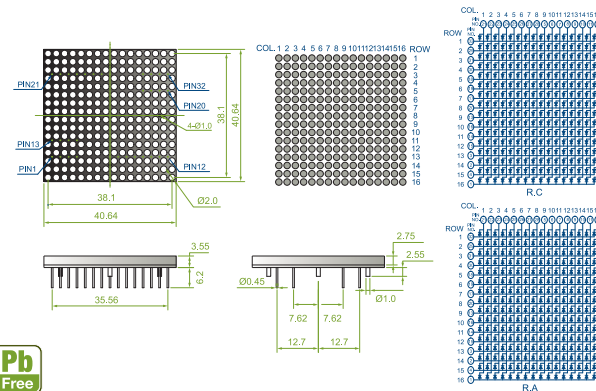
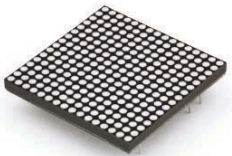
### Application

- Electronic marquee
- Commercial signboard
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-D2516AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-D2516AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-D2516AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-D2516AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOM-D1616

16x16 Ø2.0 Dot Matrix Display



### Features

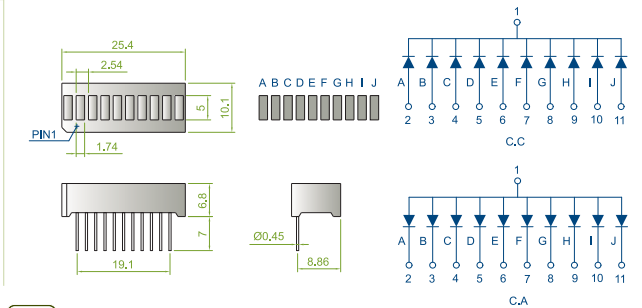
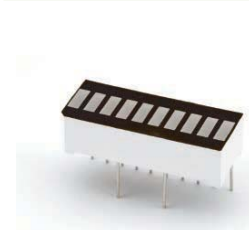
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility
- Character and video display

### Application

- Electronic marquee
- Commercial signboard
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOM-D1616AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	R.C/R.A		
TOM-D1616AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOM-D1616AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOM-D1616AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

## TOA-B10Ax/Bx



### Features

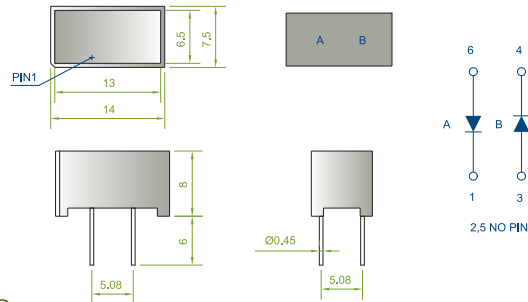
- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

### Application

- Medical and industrial equipments
- Cashier machine
- Consumer and gaming electronics application
- Home appliance
- Customization product

Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_d$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOA-B10AMG/BMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A		
TOA-B10AMY/BMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOA-B10AME/BME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOA-B10AMR/BMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOA-L10Zx



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

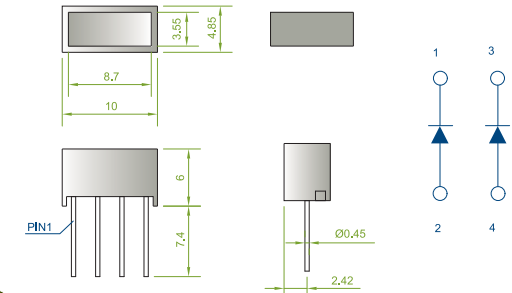
**Application**

- Medical and industrial equipments
- Cashier machine
- Consumer and gaming electronics application
- Home appliance
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOA-L10ZMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A		
TOA-L10ZMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOA-L10ZME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOA-L10ZMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOA-L2500Zx



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

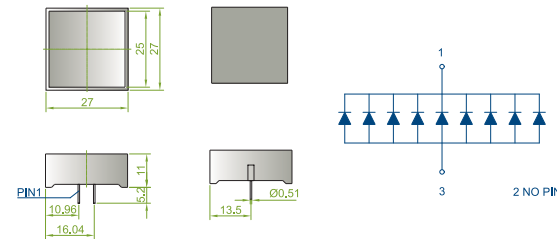
**Application**

- Medical and industrial equipments
- Cashier machine
- Consumer and gaming electronics application
- Home appliance
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOA-L2500ZMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A		
TOA-L2500ZMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOA-L2500ZME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOA-L2500ZMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOA-L17Zx



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

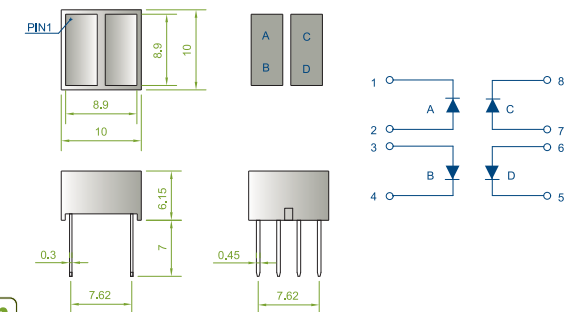
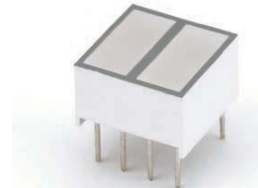
**Application**

- Medical and industrial equipments
- Cashier machine
- Consumer and gaming electronics application
- Home appliance
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOA-L17ZMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A		
TOA-L17ZMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOA-L17ZME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOA-L17ZMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

### TOA-L2700Zx



**Features**

- Various color
- IC compatible
- Excellent color uniformity
- Low current operation available
- Design flexibility

**Application**

- Medical and industrial equipments
- Cashier machine
- Consumer and gaming electronics application
- Home appliance
- Customization product



Part Number	Chip			Face Color	$V_f$ (V) at $I_f=20\text{mA}$				$I_f$ ( $\mu\text{cd}$ ) at $I_f=10\text{mA}$		Drive Mode
	Material	Emitted Color	$\lambda_e$ (nm)		TYP.	MAX.	MIN.	TYP.	TYP.	TYP.	
TOA-L2700ZMG	AlGaInP	Ultra-Green	572	Optional	2.0	2.3	7988	15524	C.C/C.A		
TOA-L2700ZMY	AlGaInP	Ultra-Yellow	590		2.0	2.3	7988	15524			
TOA-L2700ZME	AlGaInP	Ultra-Orange	623		2.0	2.3	10384	21937			
TOA-L2700ZMR	AlGaInP	Ultra-Red	630		2.0	2.3	7988	15524			

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