

Data Sheet

7.1 mm One Digit Display SMD

(Common Anode type)

Features

- 7.1 mm One Digit Display
- · Long lifetime operation
- IC compatible
- · Low power dissipation
- · Gray surface & white segment or dot
- RoHS compliant

Applications

- Counting device
- Clock

Absolute Maximum Rating (Ta=25 °C)

, 1000 in 100 in 100 in 110 in				
		Value	Unit	
ltem	Symbol	Red/Yellow/Yellow Green		
DC Forward Current	lF	25	mA	
Pulse Forward Current#	IFP	80	mA	
Reverse Voltage	VR	5	V	
Power Dissipation	Pt	65	mW	
Operating Temperature	Topr	-30 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +100	°C	
Lead Soldering Temperature (1.6 mm Below body)	Tsol	260 °C/3 sec	°C	

#Pulse width Max.10 ms Duty ratio max 1/10

#Reflow time Max 3 seconds

Electrical -Optical Characteristics (Ta=25 °C)

	Color		VF (V)		IR(µA)	lv(mcd)			λD(nm)				
BN			Min.	Тур.	Max.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	
			IF=20mA		VR=5V	IF=10mA		IF=20mA					
2903146	Red	R		-	2.1	2.6	100	2	6	10	625	630	640
2903147	Yellow	Υ		-	2.1	2.6	100	2	6	10	585	590	595
2903148	Yellow Green	YG		-	2.1	2.6	100	2	6	10	565	570	575

^{*1} Tolerance of measurements of dominant wavelength is ±1 nm

Photo



^{*2} Tolerance of measurements of luminous intensity is ±15 %

^{*3} Tolerance of measurements of forward voltage is +0.1 V



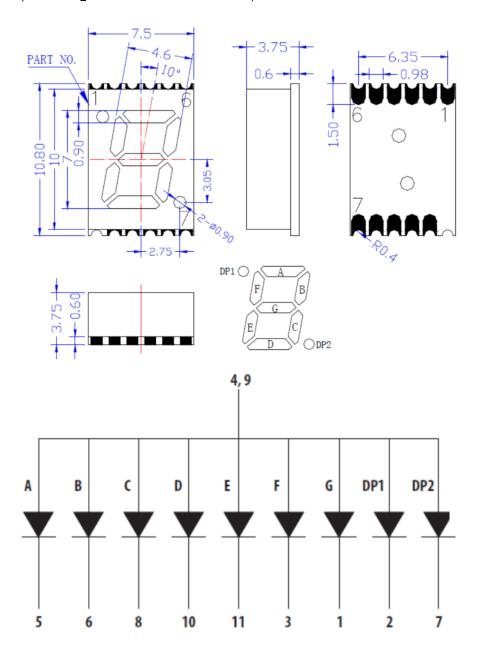
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Package Dimensions

Common Anode type

Note: 1, Unit: mm

(Tolerance: ±0.25 mm unless otherwise noted)



Item no.: 2903146, 2903147, 2903148

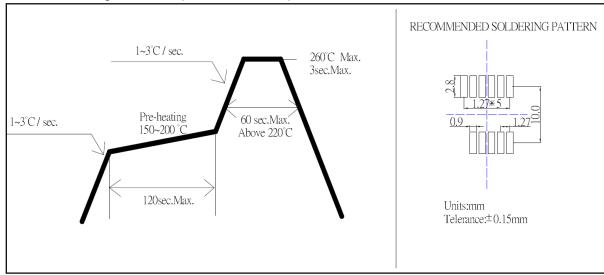


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Soldering Conditions

Reflow Soldering		Hand Soldering			
Pre-Heat	150 ~ 200 °C				
Pre-Heat Time	120 sec. Max.		350 °C Max.		
Peak temperature	260 °C Max.	Temperature Soldering time	3 sec. Max.		
Dipping Time 3 sec. Max.			(one time only)		
Condition	Refer to Temperature-profile		(che ume chij)		

Reflow Soldering Condition (Lead-free Solder)



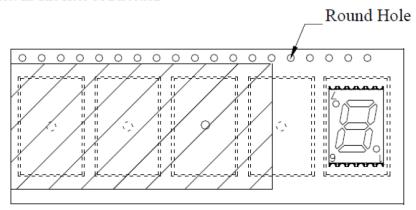
- Recommended soldering conditions vary according to the type of LED
- Although the recommended soldering conditions are specified in the above table, reflow, or hand soldering at the lowest possible temperature is desirable for the LEDs.
- A rapid-rate process is not recommended for cooling the LEDs down from the peak temperature.
- All SMD LED products are pb-free soldering available.
- Occasionally there is a brightness decrease caused by the influence of heat or ambient atmosphere during air reflow. It is recommended that the User use the nitrogen reflow method.
- Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable a double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.
- Reflow soldering should not be done more than two times.
- When soldering, do not put stress on the LEDs during heating.
- After soldering, do not warp the circuit board.

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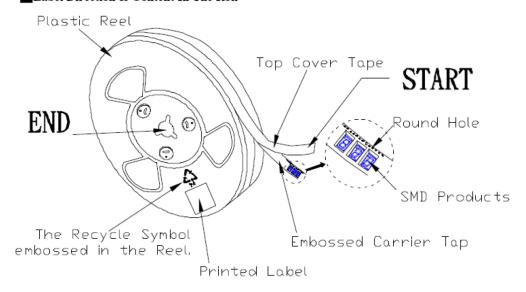


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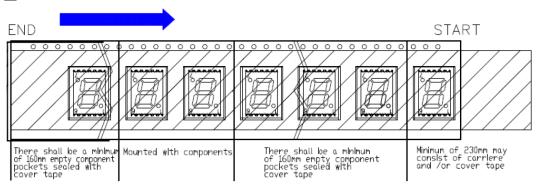
The Products In The Reel Of Direction



Label Direction & Content In The Roll



■USER FEED DIRECTION



- Package Criteria:
- 1. Total unit per reel is 1000PCS.
- 2. Max 5 reels/5000PCS are packaged in each carton

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CAUTION

1 September 1

This bag contains

MOISTURE-SENSITIVE DEVICES

- 1. Calculated shelf life in sealed bag: 12 months at <40 °C and <90% relative humidity (RH).
- 2. Peak package body temperature: Per product label
- 3. After bag is opened, devices that will be subjected to reflow solder or other high temperature process must be
 - a) Mounted within: 168 hours of factory conditions ≤30 °C/60%RH
 - b) Stored per J-STD-033
- 4. Devices require bake, before mounting, if:
 - a) Humidity Indicator Card is >10% when read at 23±5 °C
 - b) 3a or 3b not met.
- 5. If baking is required, devices may be baked for 20 hours at 60±5 °C

Bag Seal Date:	
_	If Blank, see adjacent bar code label

Note: Level and body temperature defined by IPC/JEDEC J-STD-020