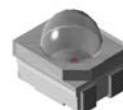


PLCC Dome Package SMD LED

VR 7W68

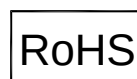
Description

The constructive of this series of LEDs are different from the PCB type SMD LED. The lead-frame is of metal, reflector is made of thermoplastic and construct into this unique type of SMD LED. The Wavelengths and Luminous Intensities of this series are grouped under 30mA for uniformity. The dice used in this series is InGaN technology are low power consumption and obtaining high luminous intensity.



Applications

- Dashboards and switch
- Backlight keypads
- Industrial control systems signal indicator
- Automotive features
- Industrial panel



Electronic Optical Characteristics (at 30mA):

Part Number	Emitted Color	CC		Lens Color	Iv(mcd)		View Angle	VF(V)	
		X	Y		Min.	Max.		Min.	Max.
VR 7W68	White	0.29	0.30	Clear	3600	7200	60	2.75	3.95

Absolute Maximum Ratings (at Ta=25°C)

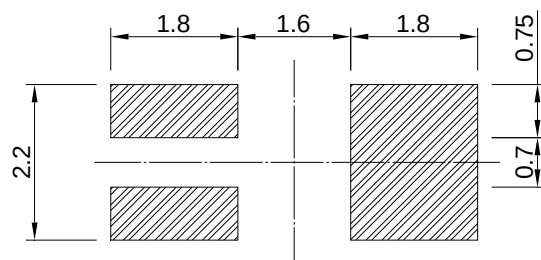
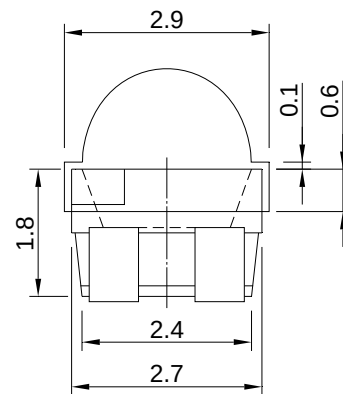
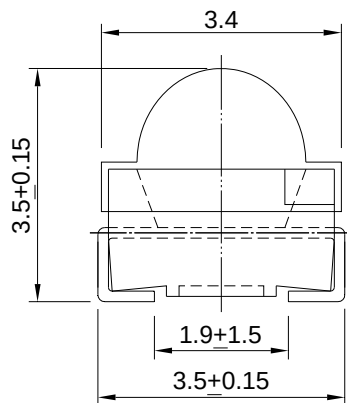
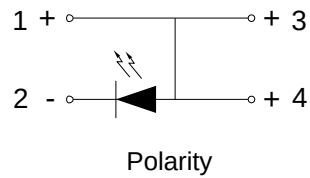
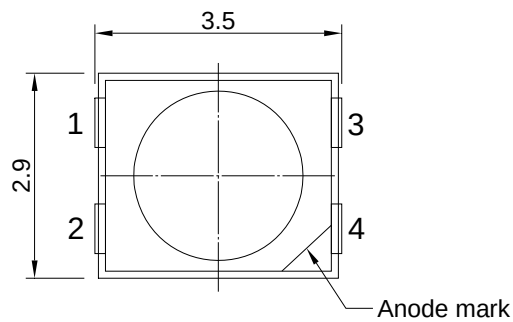
Emitted Color	P _D (mW)	I _F (mA)	I _{FP} (mA)	I _R (uA) @VR=5V	Topr (°C)	Tstg (°C)
White	110	30	100 *	20	-40~+85	-40~+100

Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specified ratings in this table will result degradation of LED life-span and may cause LED to fail.

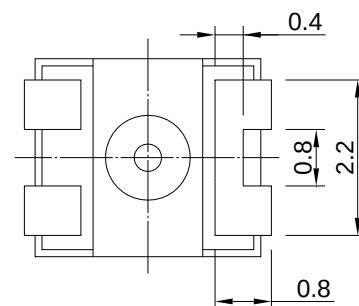
* I_{FP} = Peak Forward Current under 1/10 duty, 1KHz condition

Package Dimension:

unit:mm



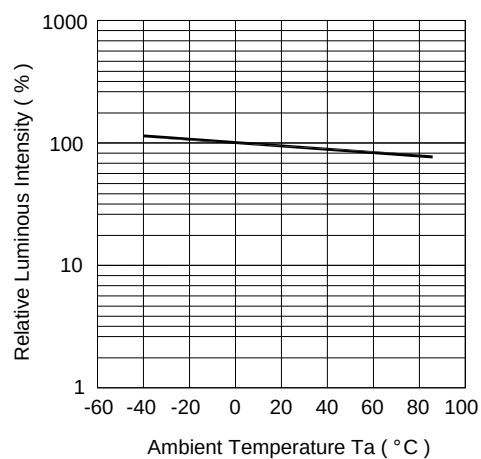
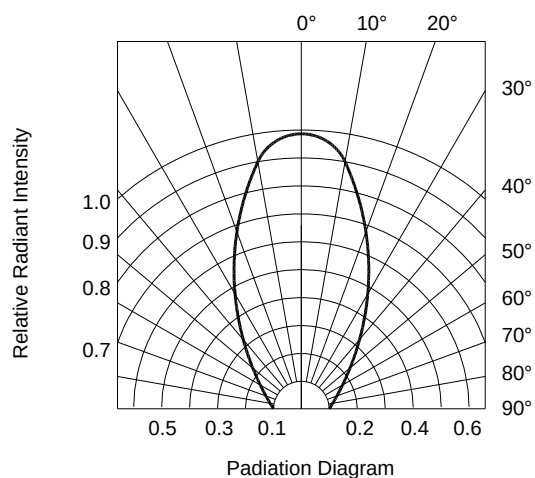
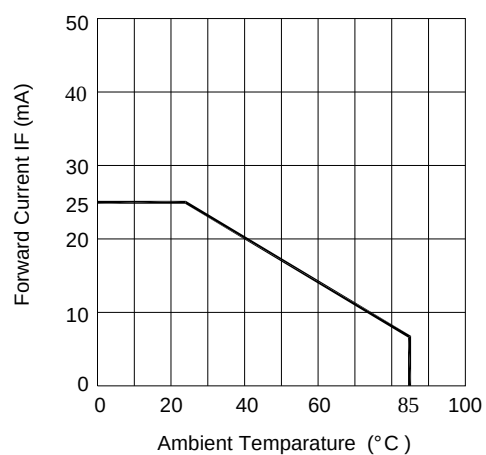
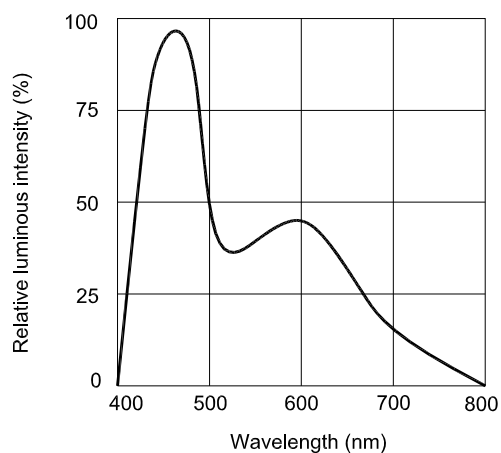
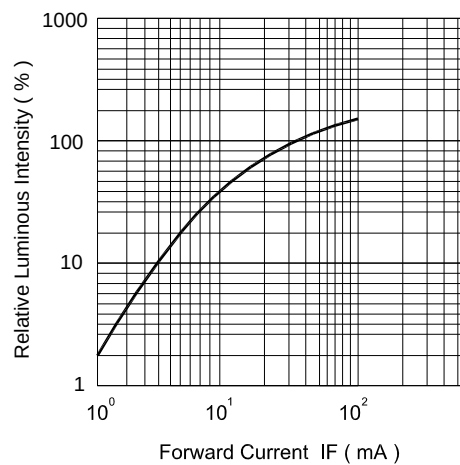
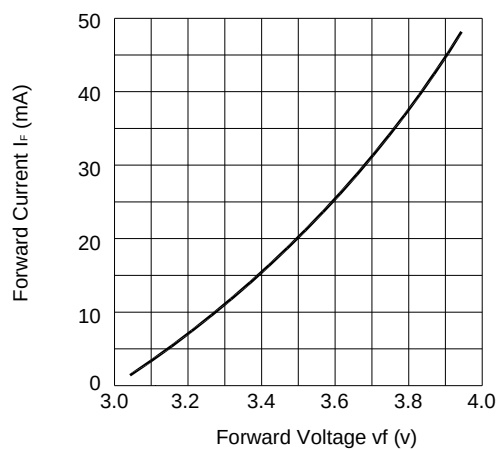
Recommended Soldering Pad



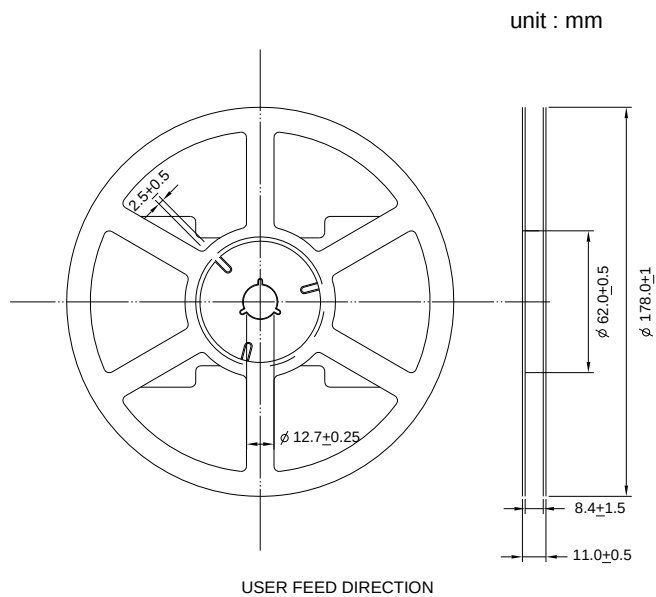
Notes:

1. All dimensions are millimeters.
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.

Optical Characteristics Curves

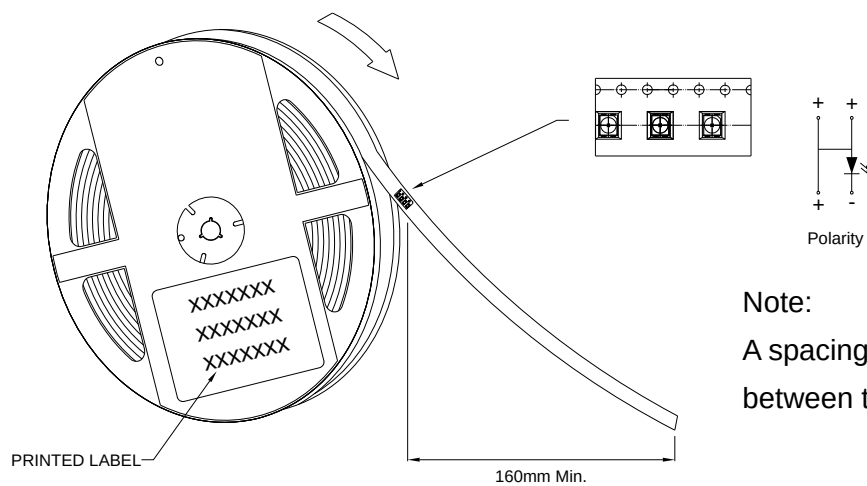


Reel Dimension:



Note:

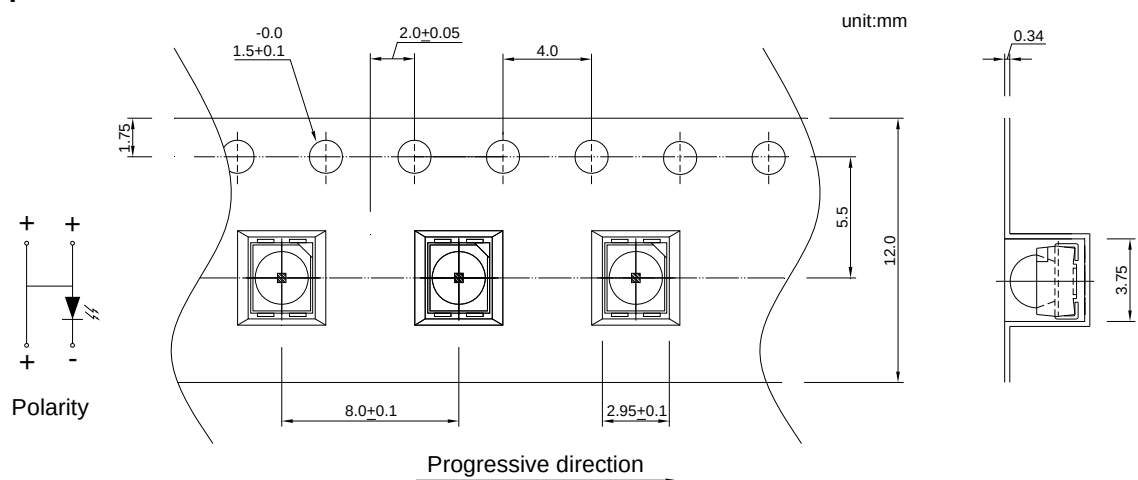
Available in 8mm carrier tape on 178mm diameter reels. (1500 pieces)



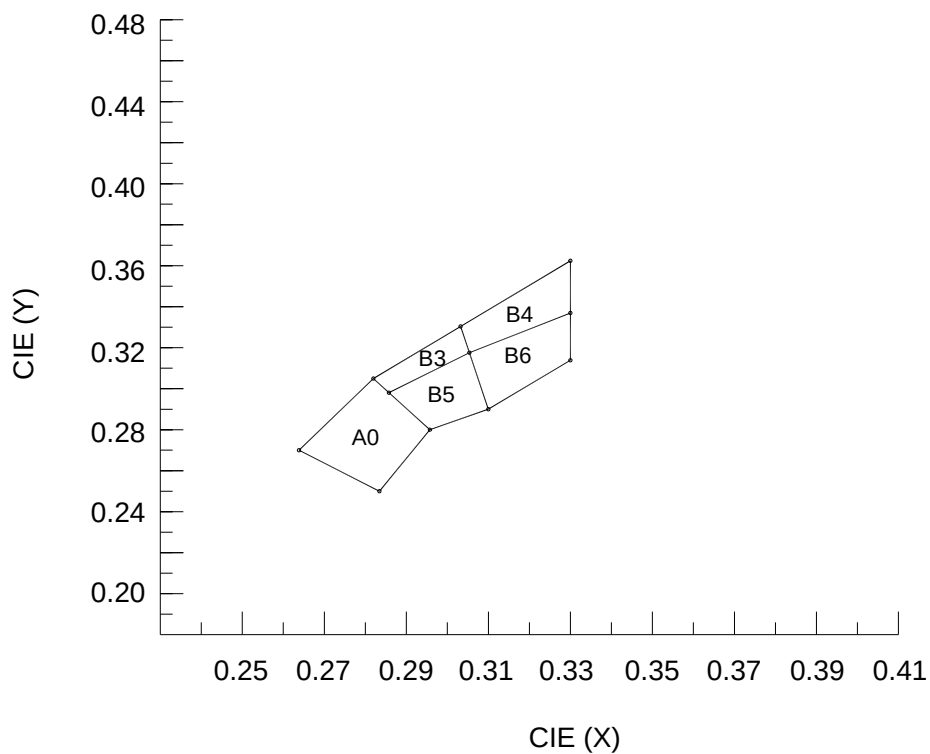
Note:

A spacing of approximately 160mm between the front edge of tape

Tape Dimension:



CIE Chromaticity Diagram

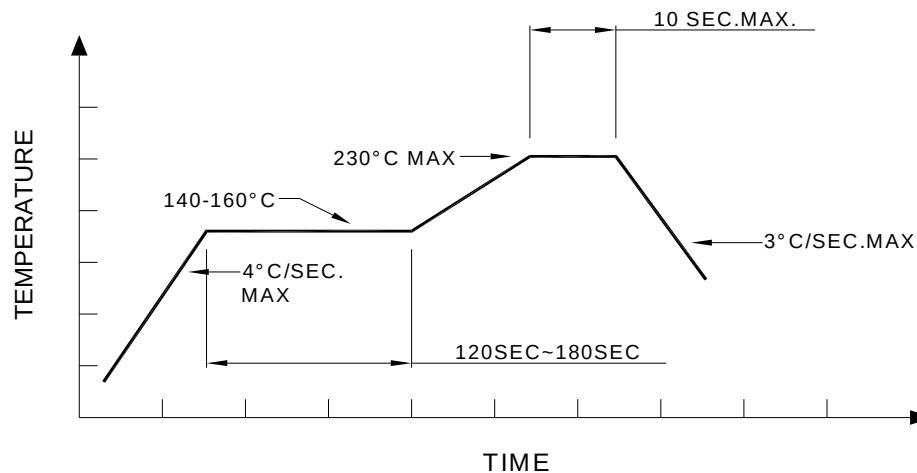


Color Ranks ($I_F=30\text{mA}$)

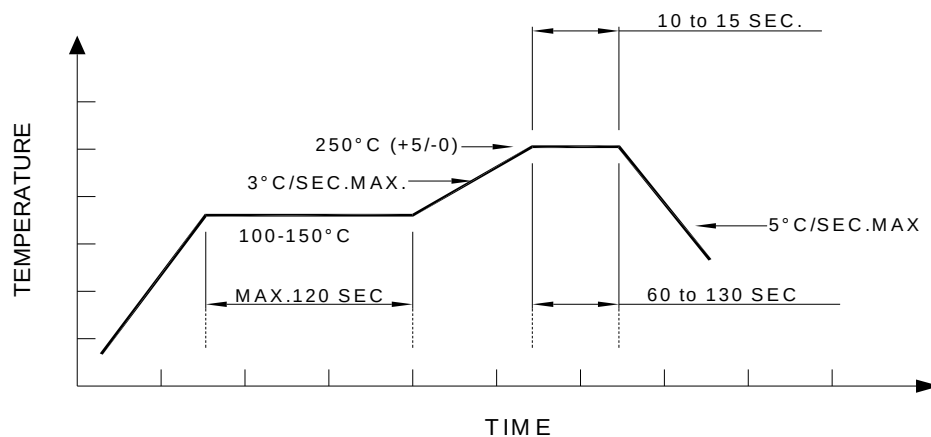
Rank	CIE x	CIE y	Rank	CIE x	CIE y
A0	0.280	0.248	B5	0.296	0.276
	0.264	0.267		0.287	0.295
	0.283	0.305		0.307	0.315
	0.296	0.276		0.311	0.294
B3	0.287	0.295	B6	0.311	0.294
	0.283	0.305		0.307	0.315
	0.304	0.330		0.330	0.339
	0.307	0.315		0.330	0.318
B4	0.307	0.315	--		
	0.304	0.330			
	0.330	0.360			
	0.330	0.339			

Measurement uncertainty of the color coordinates: ± 0.01

Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Note:

All the specifications listed in this data sheet are suitable for general electronic equipment, office equipment and communication devices. Kindly consult Sales Representatives for specific reliabilities request, Forward Voltage, Luminous Intensity, Wavelength, Radiant Power or Viewing Angle.