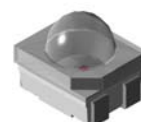


PLCC-2 Dome Package SMD LED

VR CW78

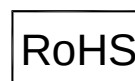
Description

The constructive of this series of LED 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 SMT 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
- Telephone and fax backlighting or indicator



Electronic Optical Characteristics (at 20mA):

Part Number	Emitted Color	C.C		Lens Color	Iv(mcd)		View Angle (2θ1/2)	VF(V)	
		X	Y		Min.	Typ.		Typ.	Max.
VR CW78	White	0.29	0.30	Clear	2000	2930	60	3.5	3.8

Absolute Maximum Ratings (at Ta=25°C)

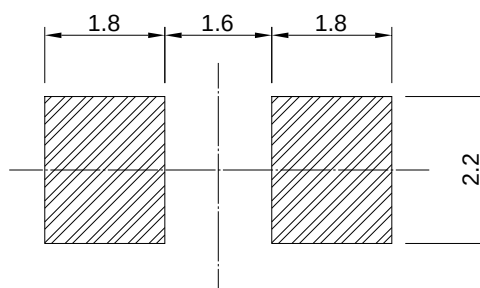
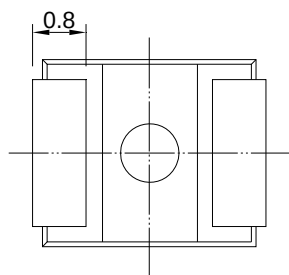
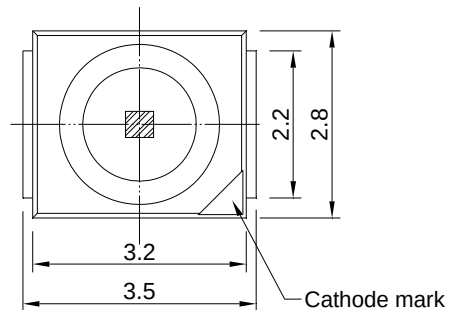
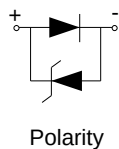
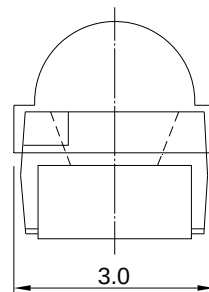
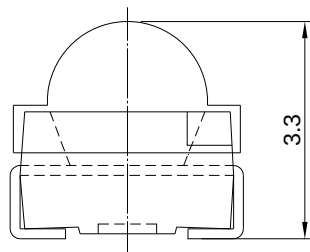
P _D (mW)	I _{FP} (mA)	I _F (mA)	Iron Solder (°C)	I _R (uA)@V _R =5V	Topr(°C)	Tstg(°C)
110	100*	30	350 ± 5 for 3 sec.	50	-40~+85	-40~+100

Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specify 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

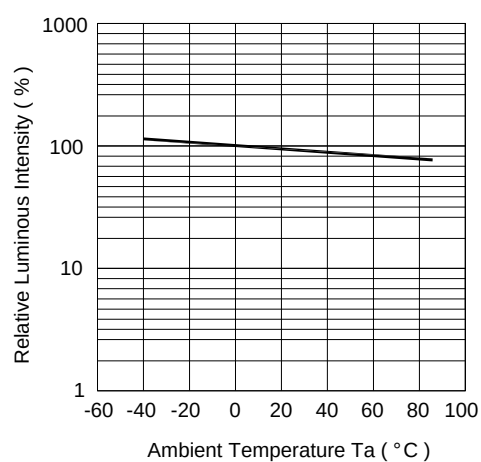
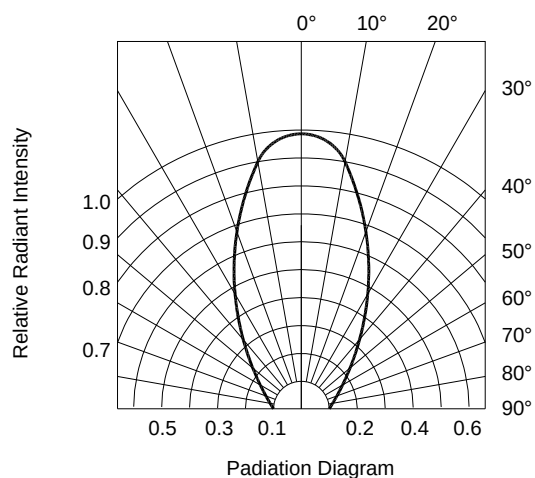
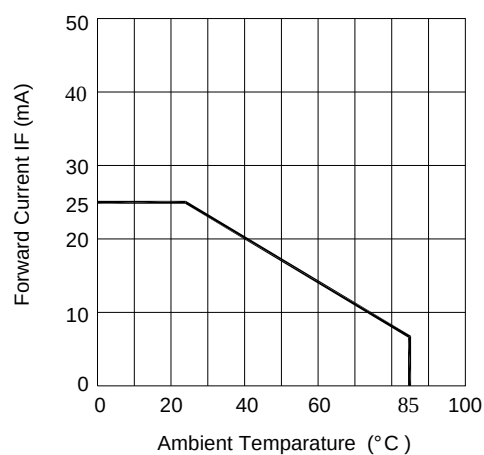
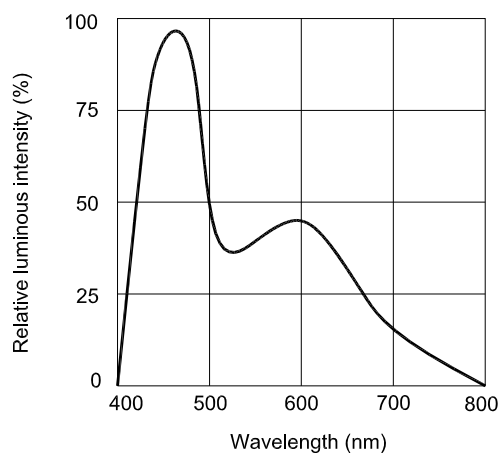
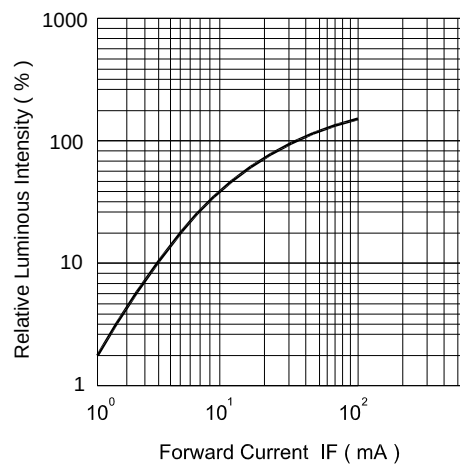
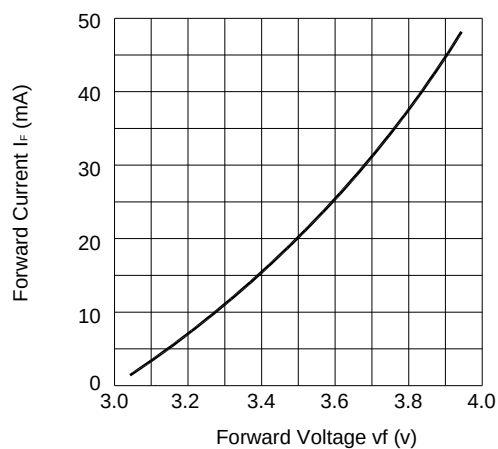


Recommended Soldering Ped

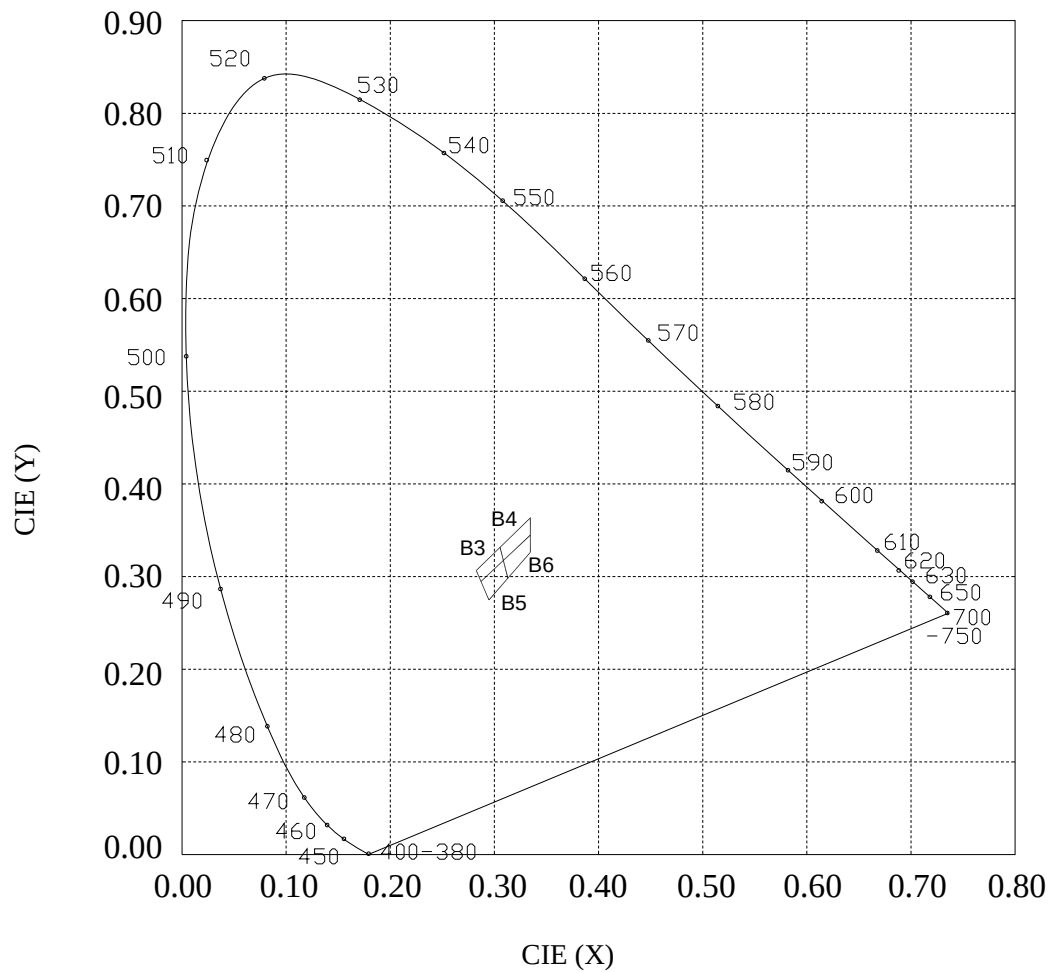
Notes:

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



CIE Chromaticity Diagram

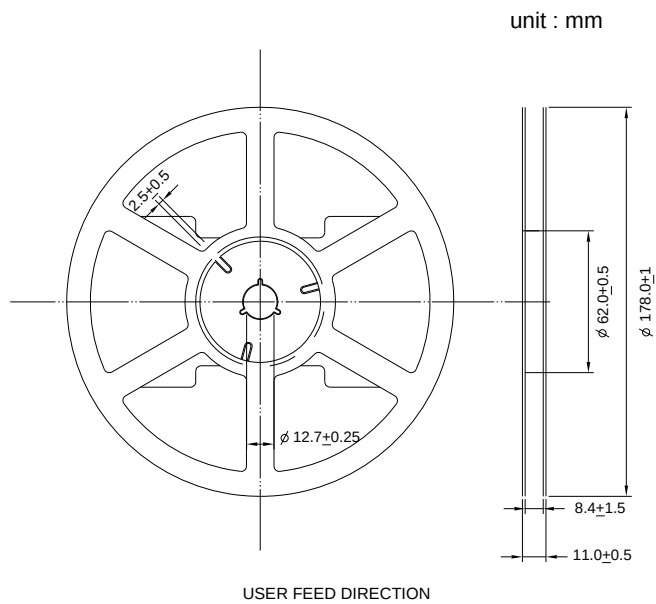


Color Ranks ($I_F=20\text{mA}$, $T_a=25^\circ\text{C}$)

Rank	CIE x	CIE y	Rank	CIE x	CIE y
B3	0.287	0.295	B4	0.307	0.315
	0.283	0.305		0.304	0.330
	0.304	0.330		0.330	0.360
	0.307	0.315		0.330	0.339
B5	0.296	0.276	B6	0.311	0.294
	0.287	0.295		0.307	0.315
	0.307	0.315		0.330	0.339
	0.311	0.294		0.330	0.318

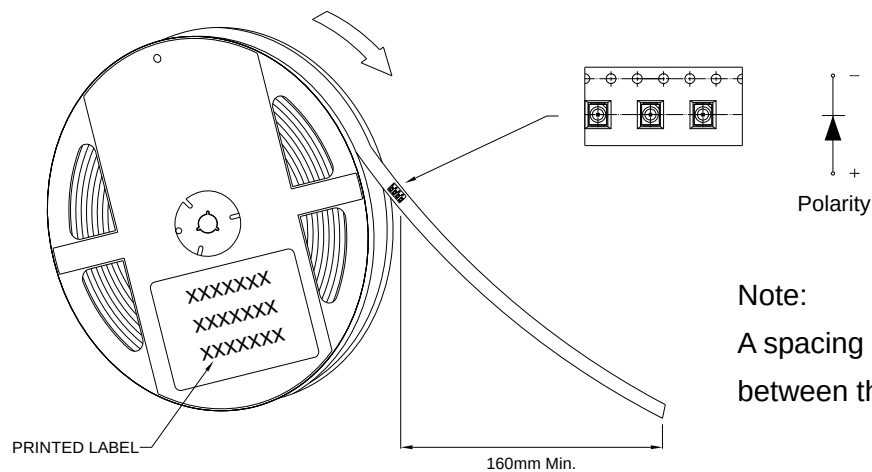
Measurement uncertainty of the color coordinates: ± 0.01

Reel Dimension:



Note:

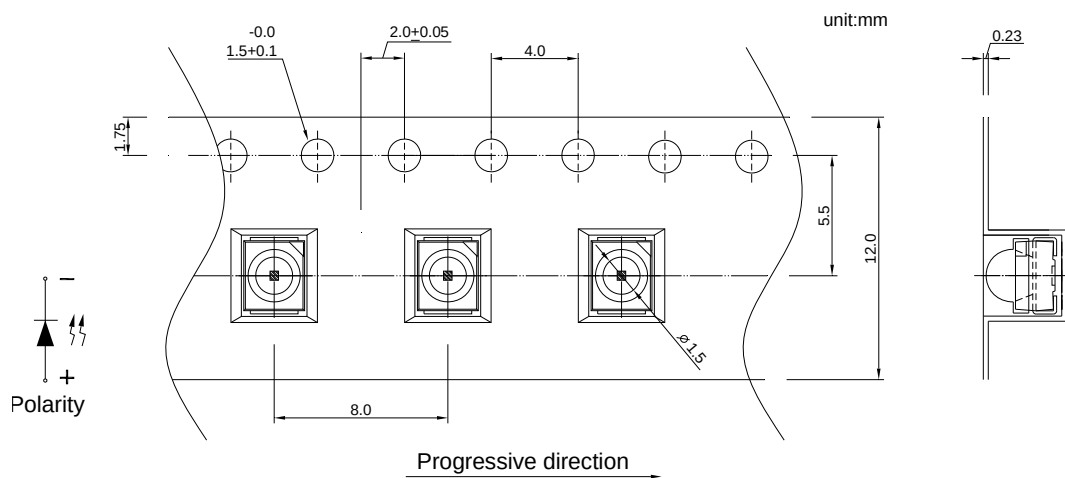
Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)



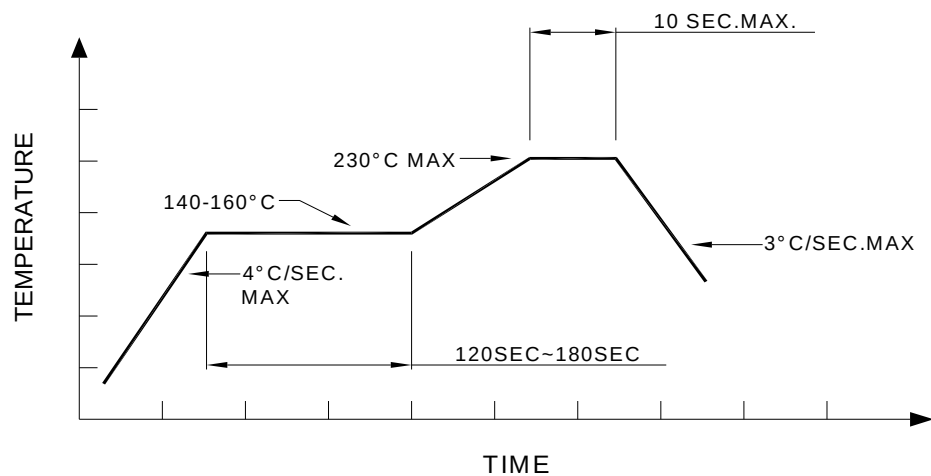
Note:

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

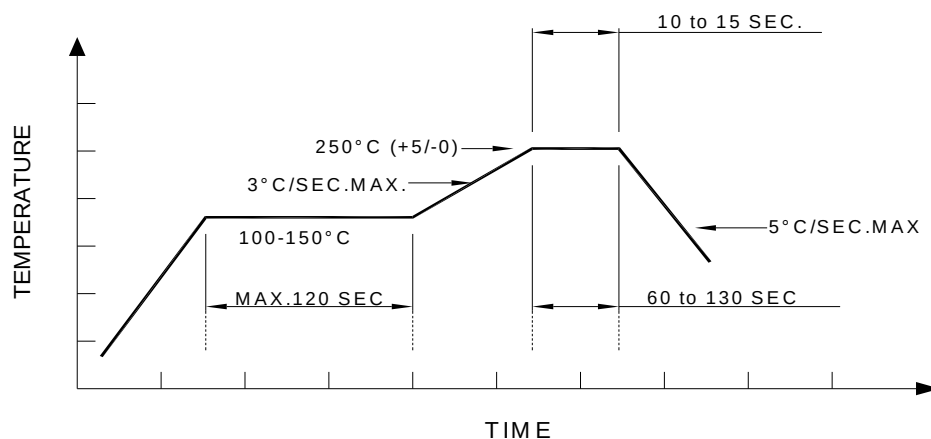
Tape Dimension:



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.