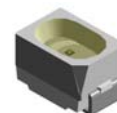


2214 PLCC-2 Package SMD LED

VR EWC8.46

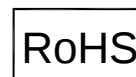
Description

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 20mA for uniformity.



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 EWC8.46	White	0.29	0.30	Diff.	1120	1800	120	3.0	3.8

Absolute Maximum Ratings (at Ta=25°C)

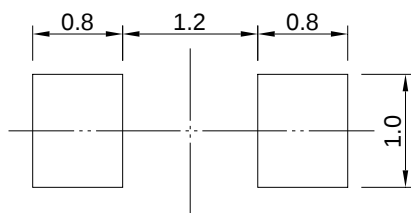
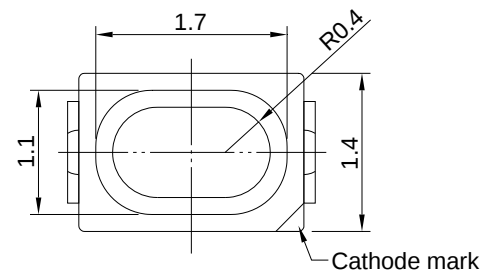
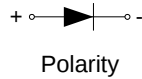
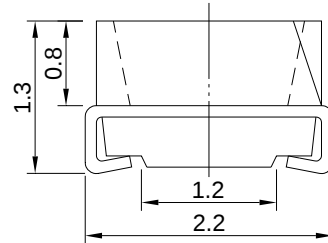
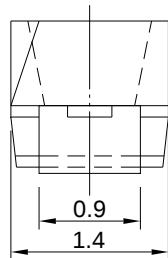
P _D (mW)	I _{FP} (mA)	I _F (mA)	Iron Solder (°C)	I _R (uA)@V _R =5V	Topr(°C)	Tstg(°C)
110	100*	25	350 ± 5 for 3 sec.	50	-40~+85	-40~+100

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.

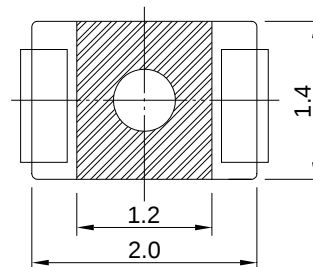
* I_{FP}: Peak Forward Current under 1/10 duty, 1KHz condition

Package Dimension:

unit : mm



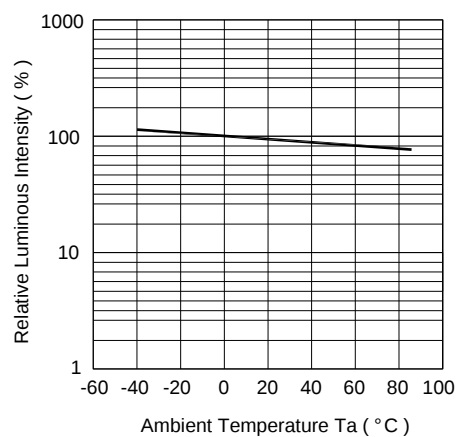
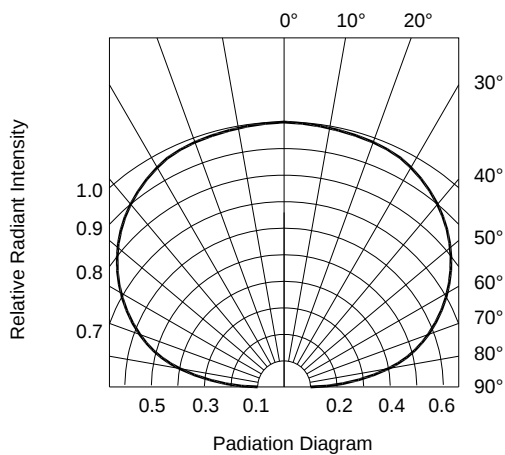
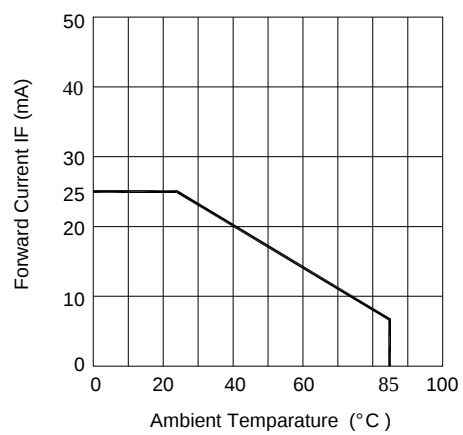
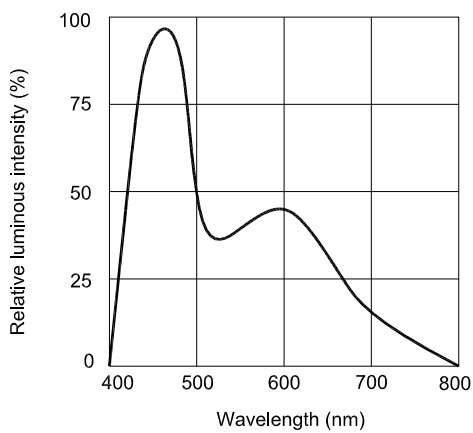
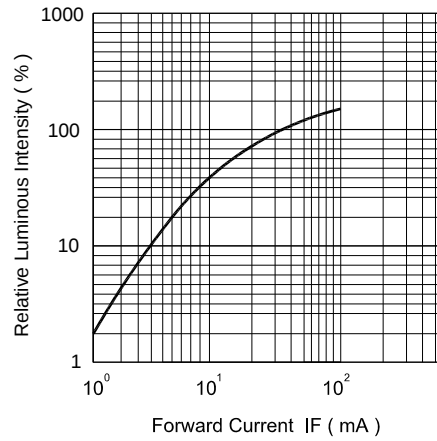
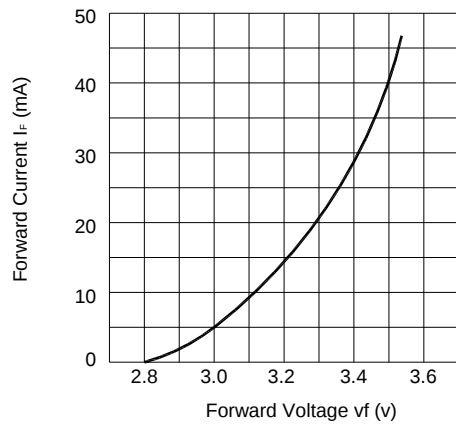
Recommended Soldering Pad



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



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

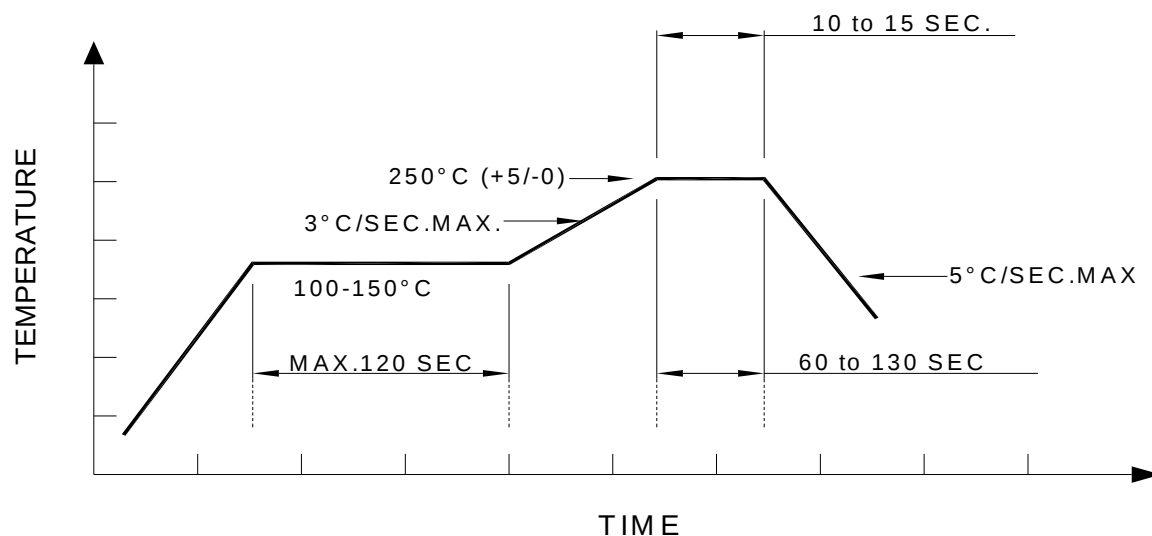
Rank	CIE x	CIE y	Rank	CIE x	CIE y
B5-1	0.2915	0.2855	B5-2	0.3003	0.2950
	0.2870	0.2950		0.2970	0.3050
	0.2970	0.3050		0.3070	0.3150
	0.3003	0.2950		0.3090	0.3045
B5-3	0.2960	0.2760	B5-4	0.3035	0.2850
	0.2915	0.2855		0.3003	0.2950
	0.3003	0.2950		0.3090	0.3045
	0.3035	0.2850		0.3110	0.2940

Measurement uncertainty of the color coordinates: ± 0.01

Specification for bin grade @ 20 mA

Iv(mcd)			VF(Volt)		
Code	Min.	Max.	Code	Min.	Max.
46	1120	1400	10	2.7	2.9
47	1420	1800	11	2.9	3.1
48	1800	2250	12	3.1	3.3
--	--	--	13	3.3	3.5

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.