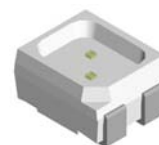


PLCC-4 Package Bi-Color SMD LED

VR 4LD8

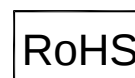
Description

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	λ (nm)		Iv(mcd)		VF(V)		View Angle (2 θ 1/2)	Lens
		λ_d	λ_p	Min.	Max.	Typ.	Max.		
VR 4LD8	Red 	624	632	71	220	2.0	2.4	120	Clear
	Blue 	470	468	71	200	3.5	3.7		

Absolute Maximum Ratings (at Ta=25°C)

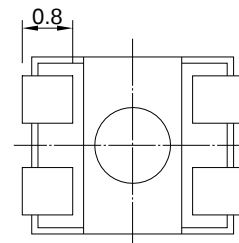
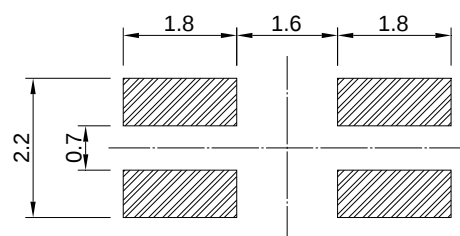
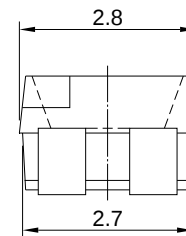
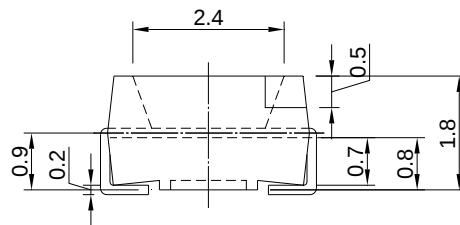
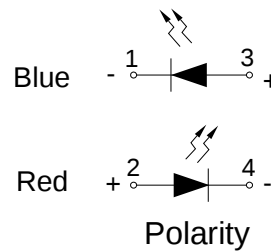
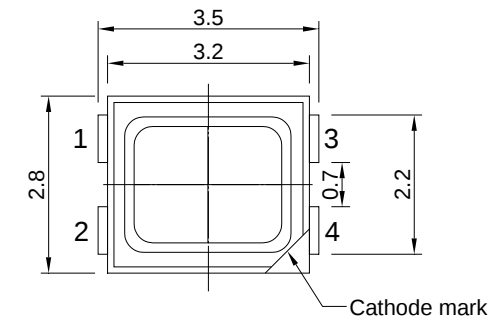
Emitted Color	P _D (mW)	I _F (mA)	I _{FP} (mA)	Iron Sol. (°C)	I _R (uA) @VR=5V	Topr(°C)	Tstg (°C)
Blue	110	25	100*	350 ± 5 for 3 sec	50	-40~+85	-40~+90
Red	60	25	60*		10	-40~+85	-40~+90

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

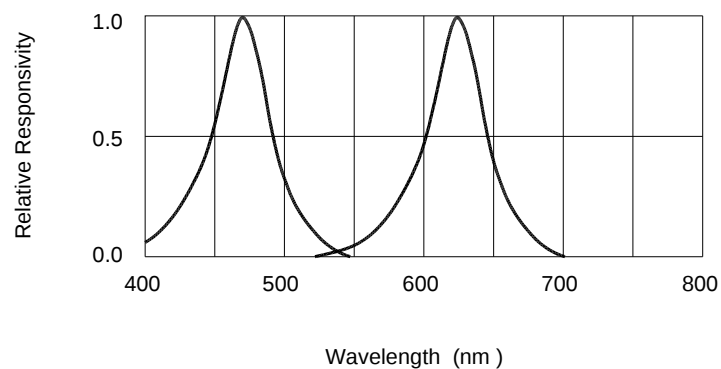
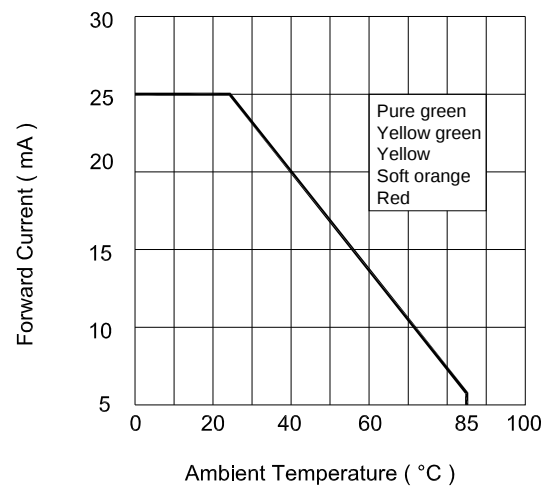
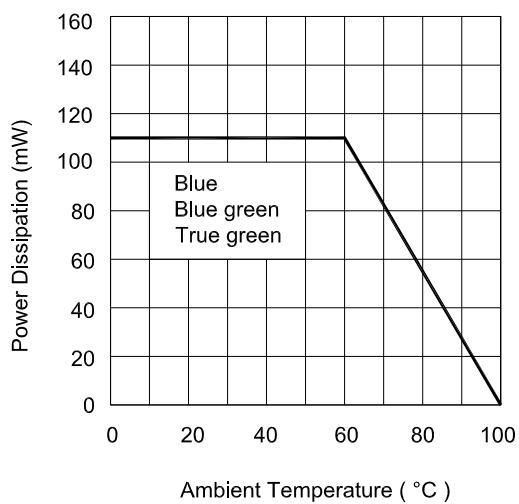
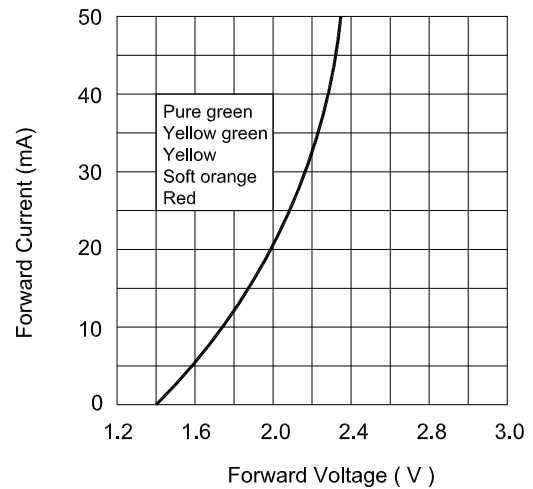
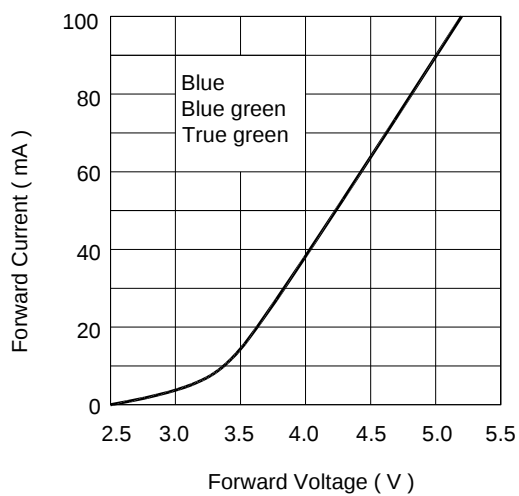


Recommended Soldering Pad

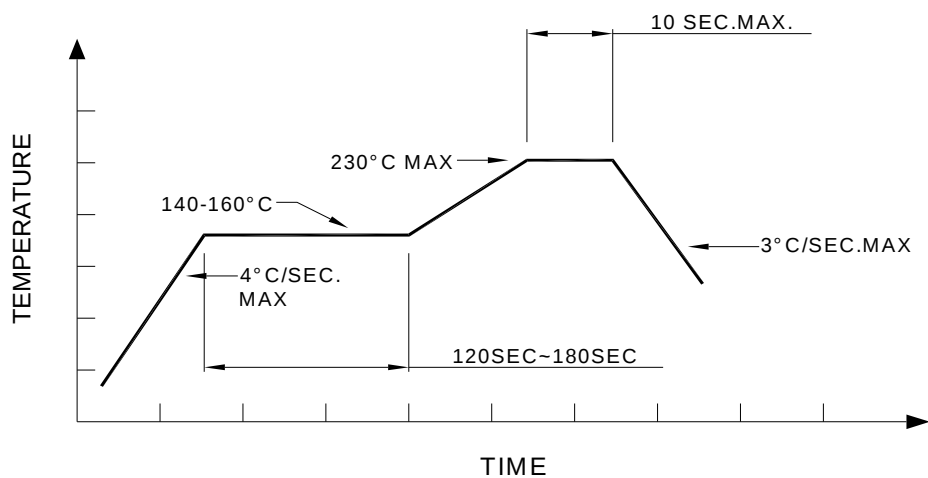
Notes:

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

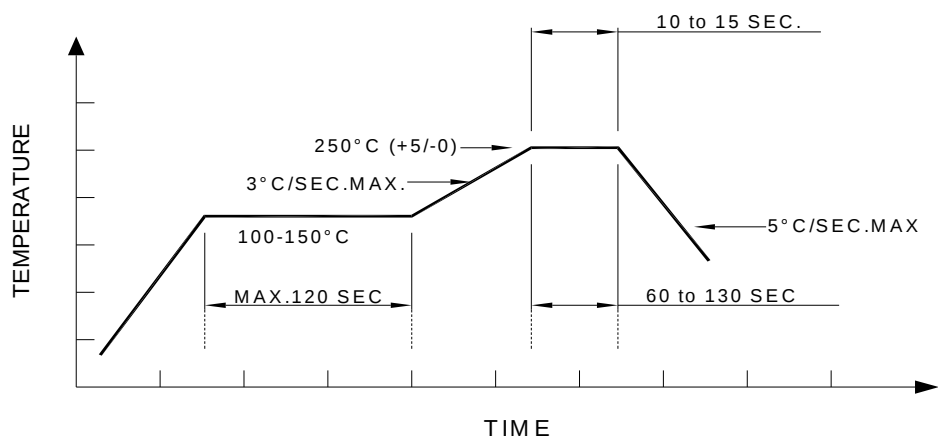
Optical Characteristics Curves



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.