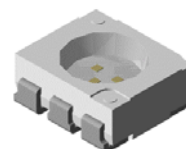


PLCC 6 Package SMD Full Color LED

VR 8RC8

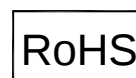
Description

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)		Lens Color	Iv(mcd)		View Angle (2 θ 1/2)	VF(V)	
		λ_d	λ_p		Min.	Typ.		Typ.	Max.
VR 8RC8	Red 	624	632	Clear	112	305	120	2.0	2.4
	True-green 	525	518		280	770		3.5	4.0
	Blue 	470	468		112	305		3.5	4.0

Absolute Maximum Ratings (at Ta=25°C)

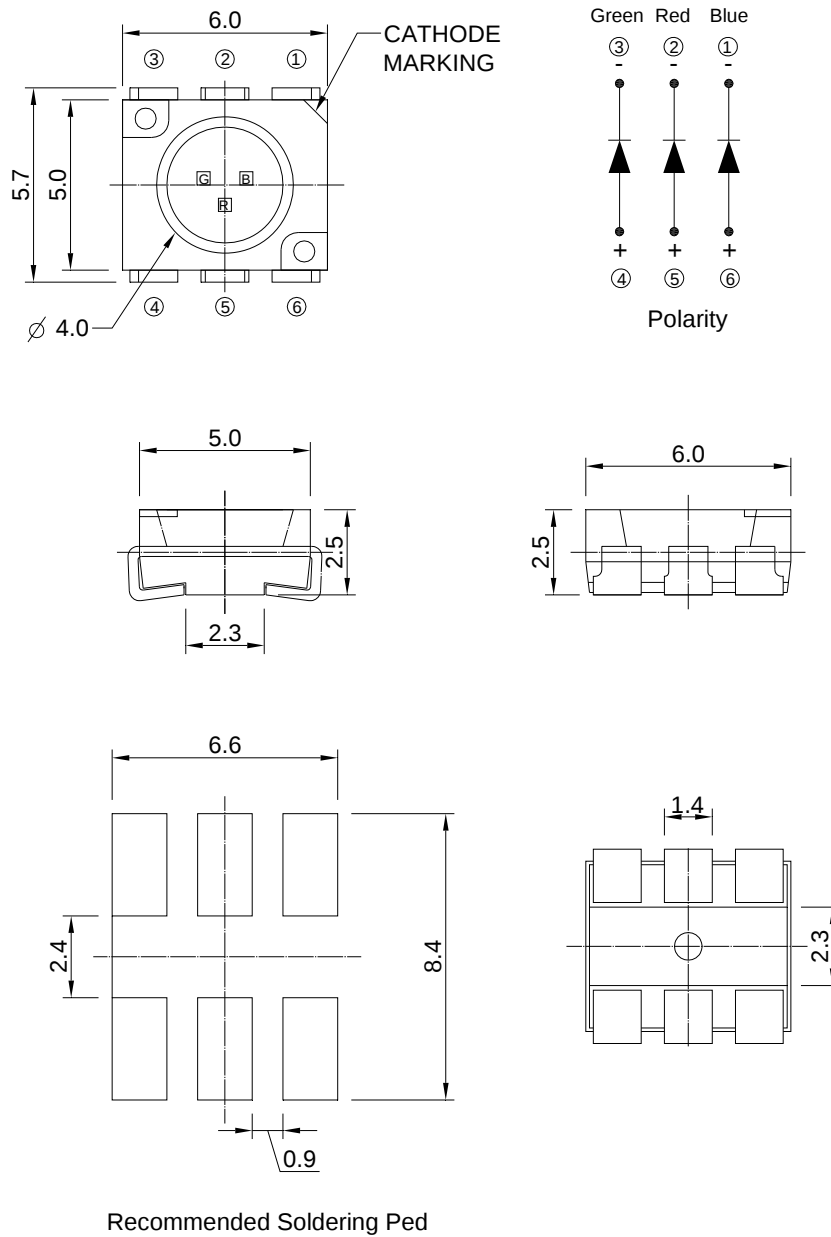
P _D (mW)	I _F (mA)	I _{FP} (mA)	Iron Soid (°C)	I _R (uA) @VR=5V	Topr (°C)	Tstg (°C)
60	50	100*	350+/-5 for 3 sec	10	-40~+85	-40~+100
110	25	100*		50	-40~+85	-40~+100
110	25	100*		50	-40~+85	-40~+100

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:

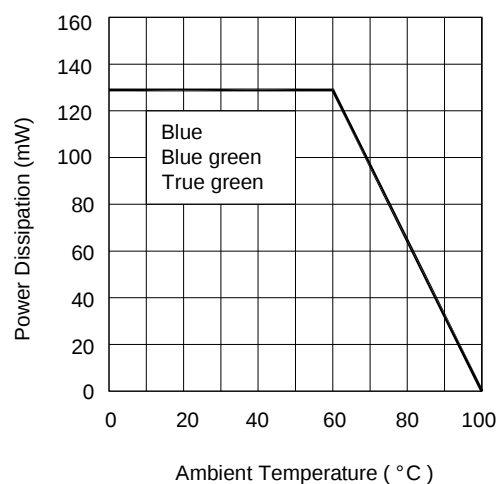
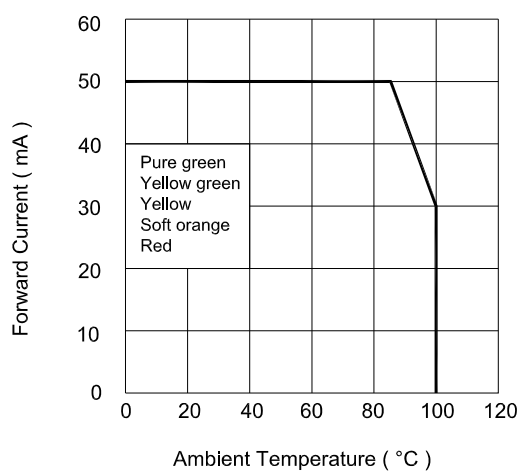
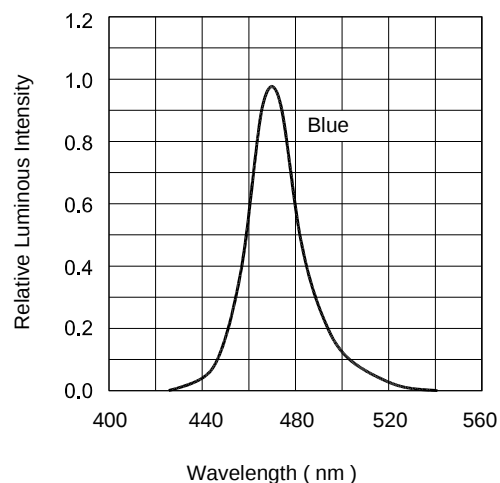
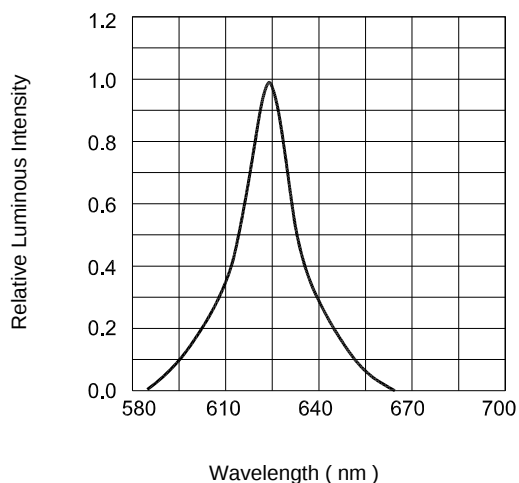
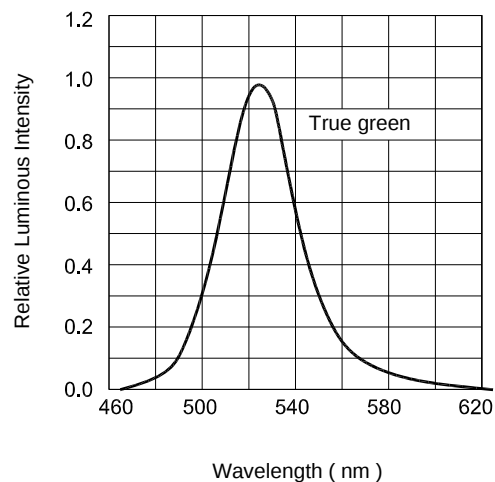
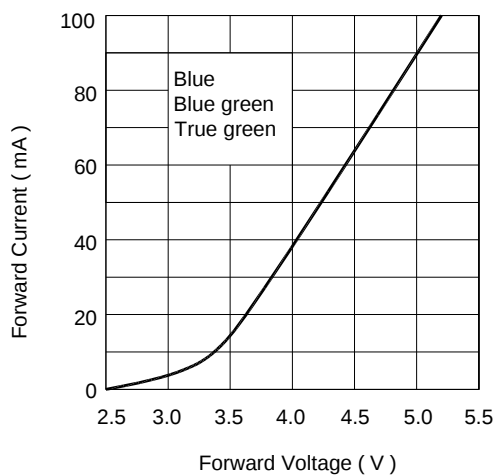
unit:mm



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



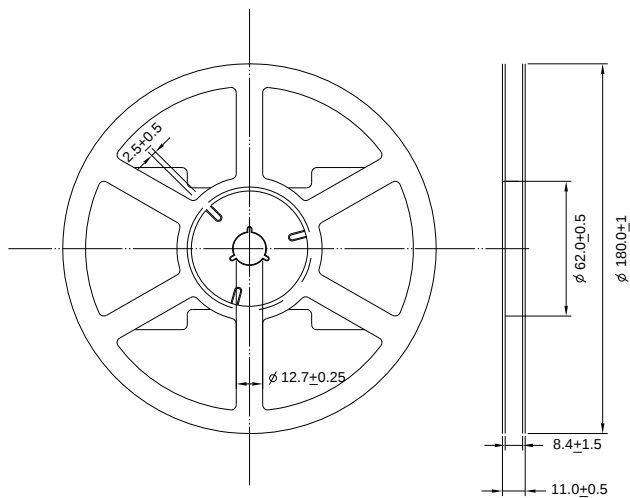
Bin Rank Table**Wavelength Rank @20 mA**

Bin Code	1		2	
WL(nm)	Min.	Max.	Min.	Max.
RED	621	626	626	631
TRUE GREEN	520	525	525	530
BLUE	465	470	--	--

Luminous Intensity Rank @20 mA

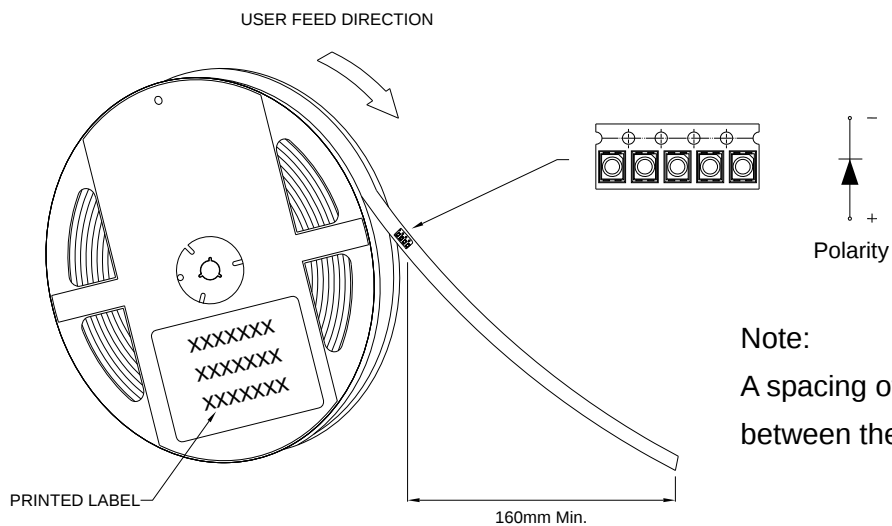
Bin Code	A		B		C	
Iv(mcd)	Min.	Max.	Min.	Max.	Min.	Max.
RED	112	180	180	280	280	450
TRUE GREEN	280	450	450	710	710	1120
BLUE	112	180	180	280	280	450

Reel Dimension:



Note:

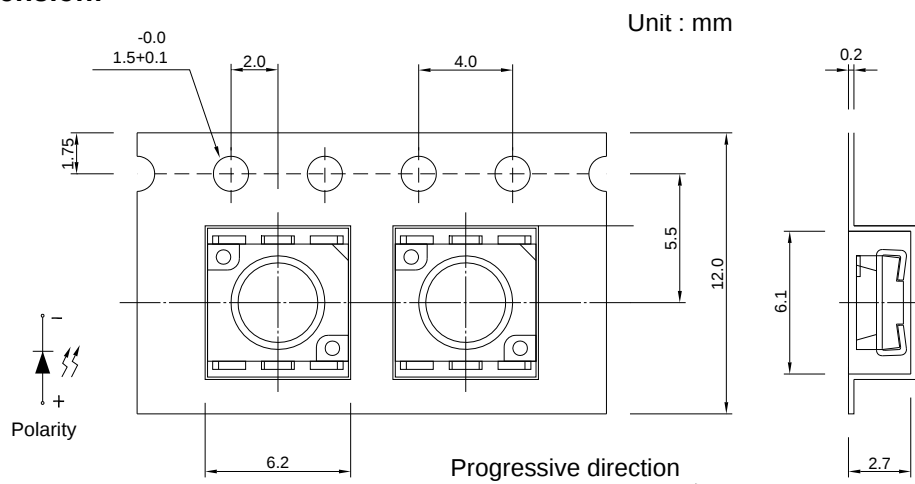
Available in 8mm carrier tape on 178mm diameter reels. (800 pieces)



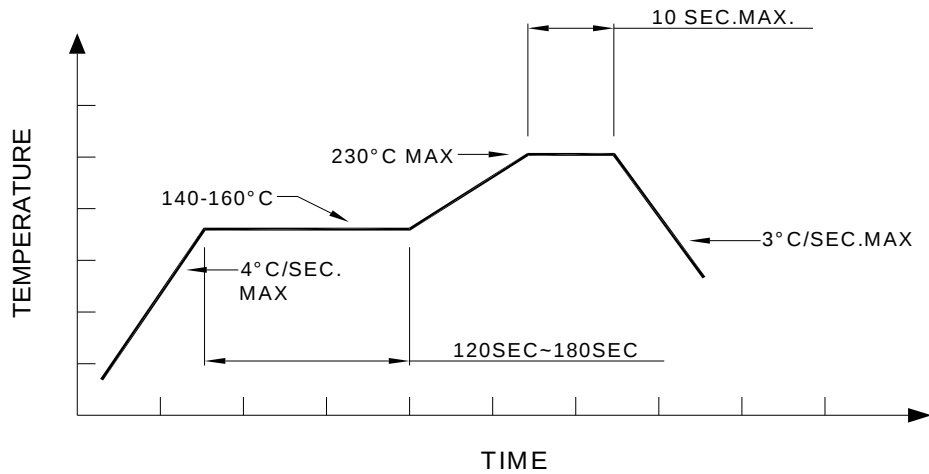
Note:

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

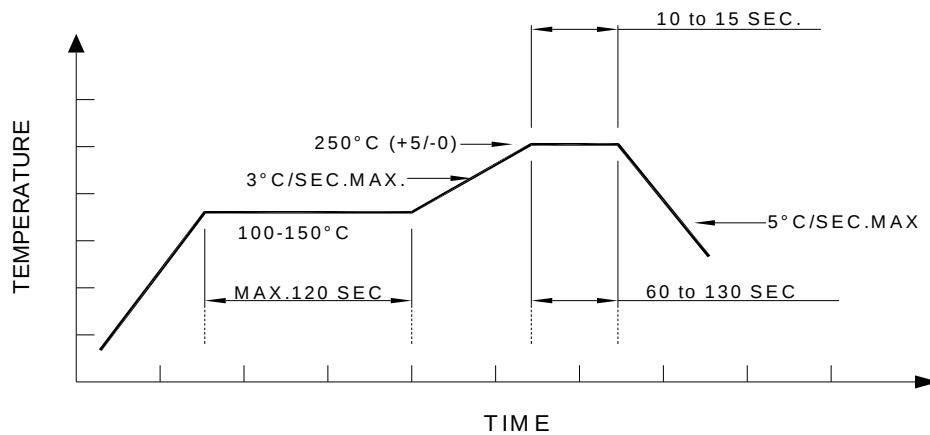
Tape Dimension:



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.