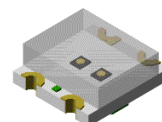


1615 Package Bi-Color SMD LED

VS TMD8

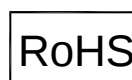
Description

This is Bi-Color SMD LED series with dimension 1.6 mm (L) * 1.5 mm (W) * 0.6mm (H). The unique of these LEDs are made from AlGaInP and InGaN chips that provide high luminous intensity at low driving current. The lens design provides 120 degree viewing angle and suitable for backlighting purpose. The available colors are RED/YELLOW, YELLOW/BLUE or even RED/BLUE. Any color combinations specified by customers can be accepted.



Applications

- Industrial control systems signal indicator
- Automotive features
- Front panel indicator
- Status indication



Electronic Optical Characteristics (at 20mA):

Part Number	Emitted Color	λ (nm)		Iv (mcd)		VF (Volt)		View Angle	Lens
		λ_d	λ_p	Min.	Typ.	Typ.	Max.		
VS TMD8	Yellow-orange 	605	611	71	117	2.0	2.4	120	Clear
	Blue 	470	468	35.5	60	3.5	4.0		

Absolute Maximum Ratings (at Ta=25°C)

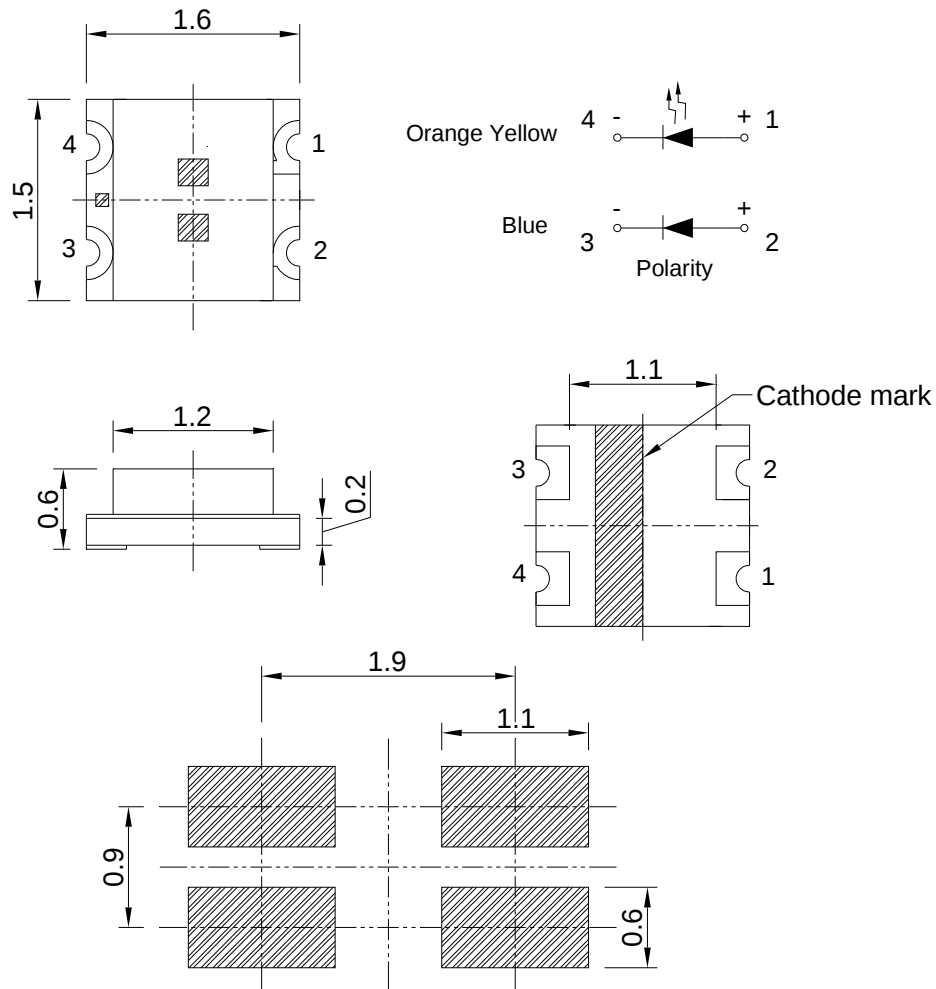
Emitted Color	P _D (mW)	I _F (mA)	I _{FP} (mA)	I _R (uA)@VR=5V	Topr (°C)	Tstg (°C)
Yellow-orange	60	25	60 *	10	-40~+85	-40~+90
Blue	60	25	100 *	50	-40~+85	-40~+90

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

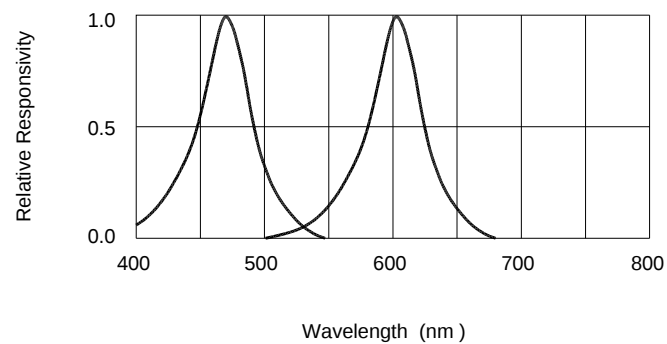
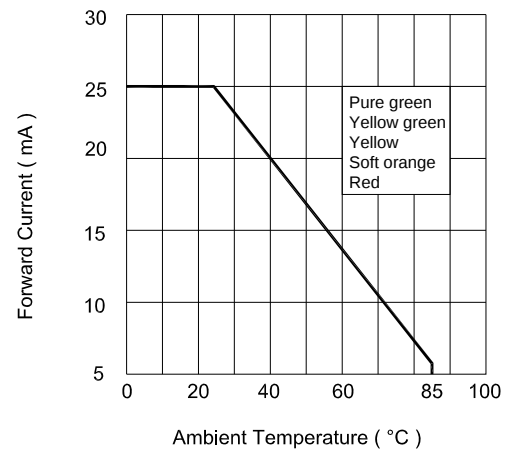
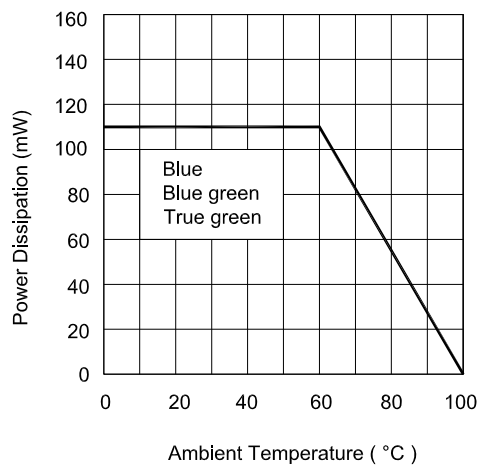
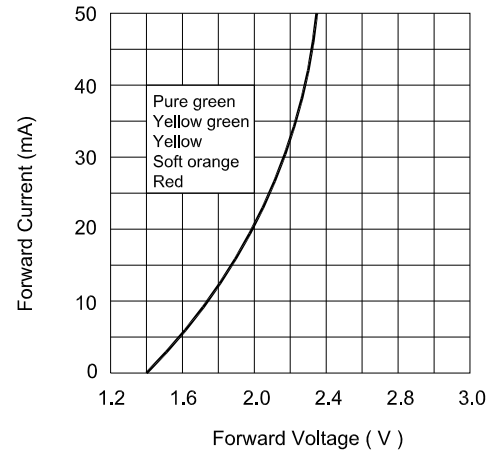
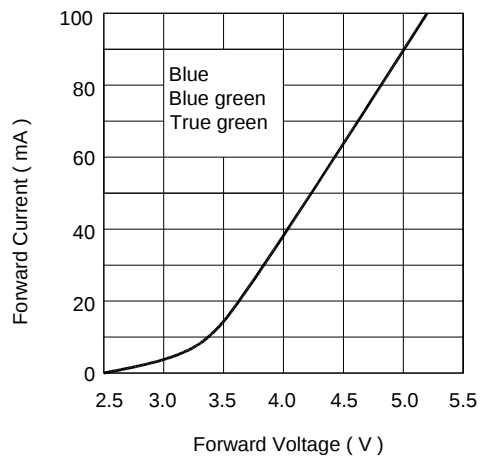


Recommended Soldering Pad

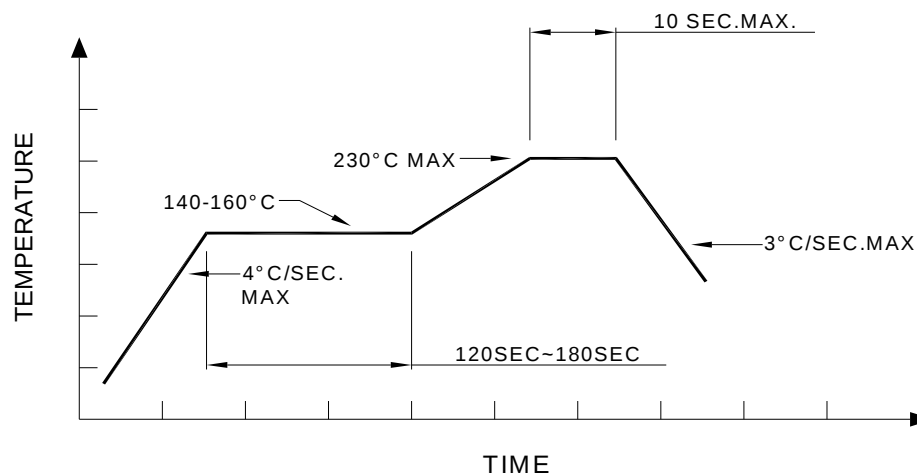
Notes:

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

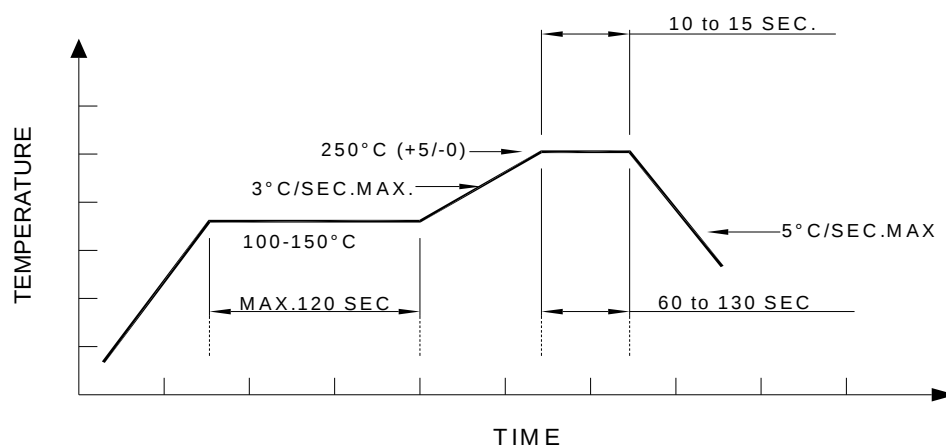
Optical Characteristics Curves



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.