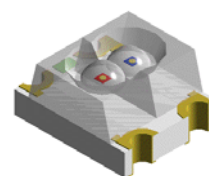


1210 Package Inner Lens Bi-Color LED

VS LF78

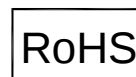
Description

This is Bi-Color SMD LED series with dimension 3.0 mm (L) * 2.5 mm (W) * 1.5 mm (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 60 degree viewing angle and suitable for backlighting purpose. The available colors are BLUE/YELLOW, YELLOW GREEN/RED 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 (@ 20mA):

Part Number	Emitted Color	λ (nm)		Iv (mcd)		Vf (Volt)		View Angle	Lens
		λ_d	λ_p	Min.	Typ.	Typ.	Max.		
VS LF78	Blue 	470	468	71	115	3.5	4.0	60	Clear
	Yellow 	589	591	90	155	2.0	2.4		

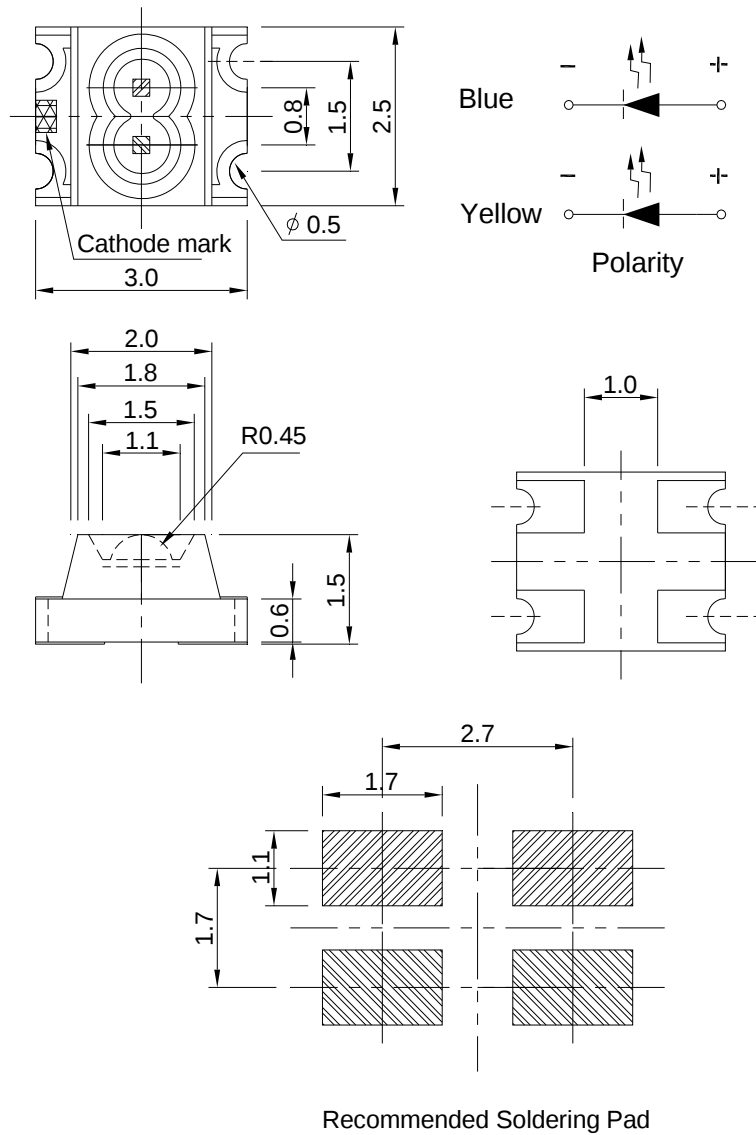
Absolute Maximum Ratings (@ Ta=25°C)

Emitted Color	P _D (mW)	If (mA)	ESD(V)	I _R (uA)@ VR=5V	Topr (°C)	Tstg (°C)
Blue (470nm)	110	25	150	50	-40~+85	-40~+90
Yellow (589nm)	60	25	2000	10	-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.

Package Dimension:

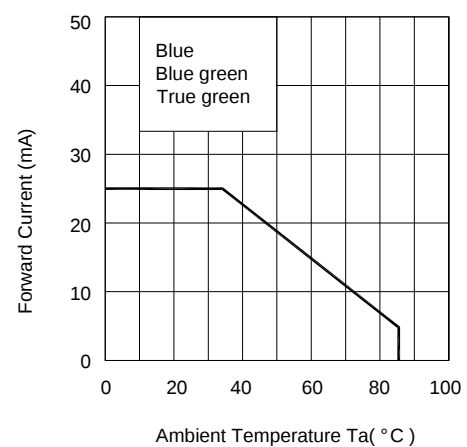
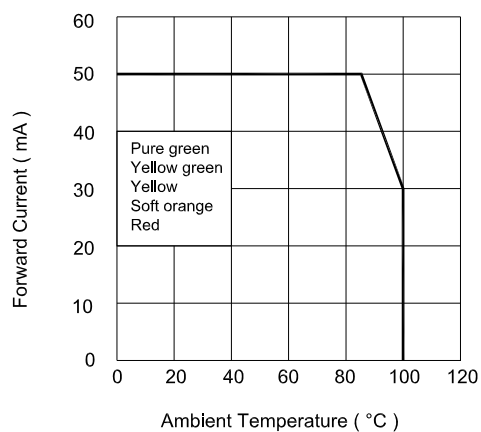
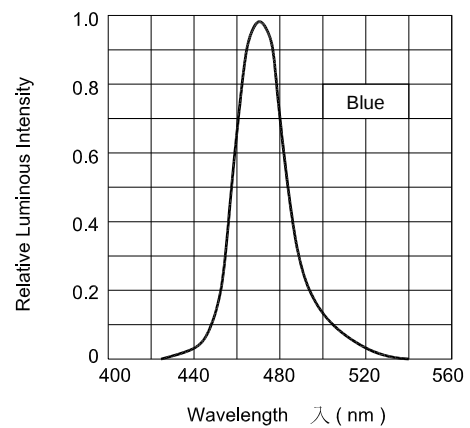
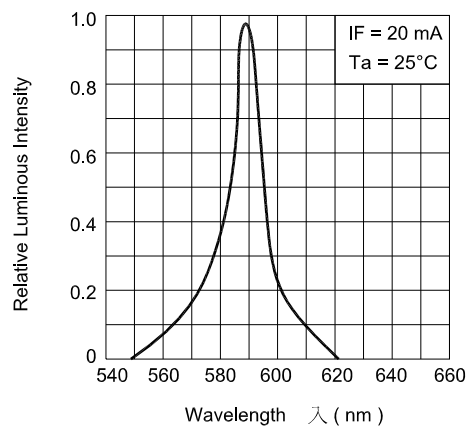
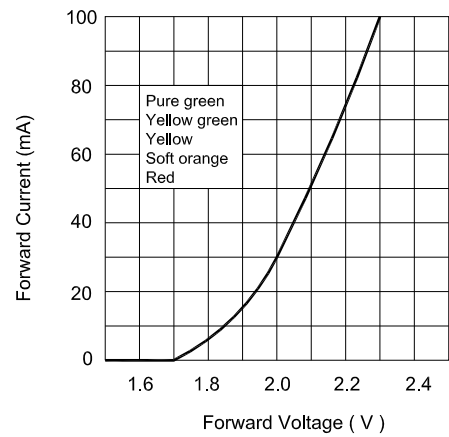
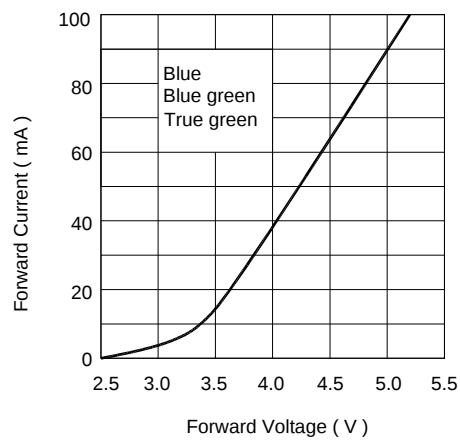
unit:mm



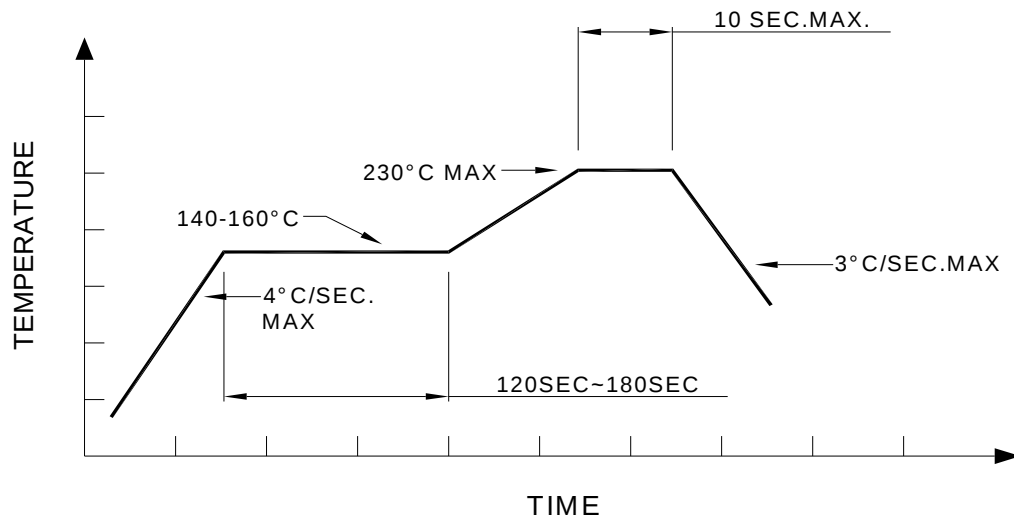
Notes:

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

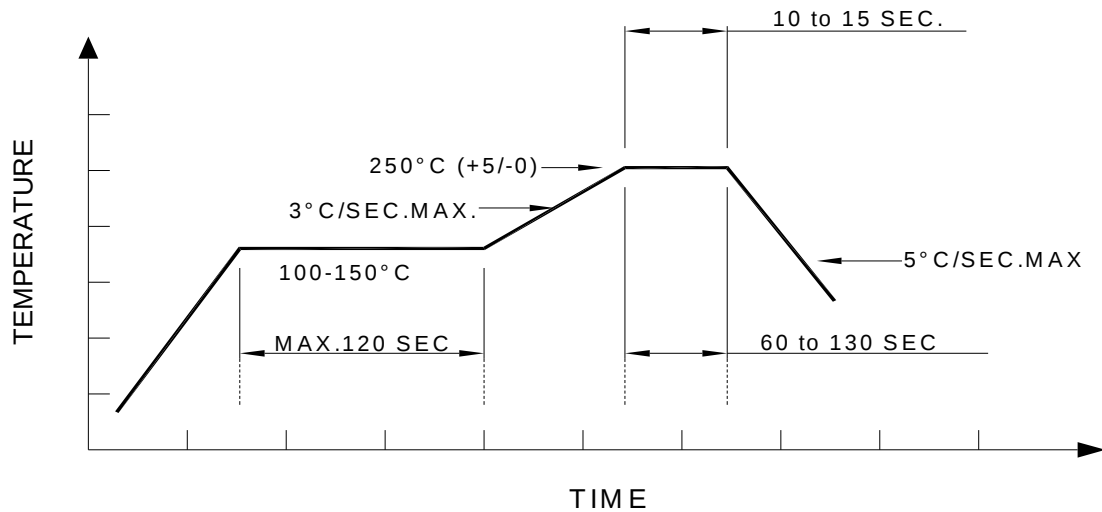
Optical Characteristics Curves



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.