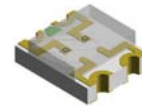


3227 SMD Package Bi-Color LED

Description

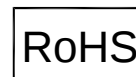
This is Bi-Color SMD LED series with dimension 3.2 mm (L) * 2.7 mm (W) * 1.1 mm (H). The unique of these LED are made from AlGaInP & InGaN chips that provide high luminous intensity at low driving current. The lens design provides 140 degree viewing angle and suitable for backlighting purpose. The available colors are Blue/Red, Green/Red or even Red/Yellow Any color combinations specified by customers can be accepted.

VS QLH8



Application

- 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 QLH8	Red 	624	632	45	78	2.0	2.4	140	Clear
	Blue 	470	468	23	32	3.5	3.8		

Absolute Maximum Ratings (at Ta=25°C)

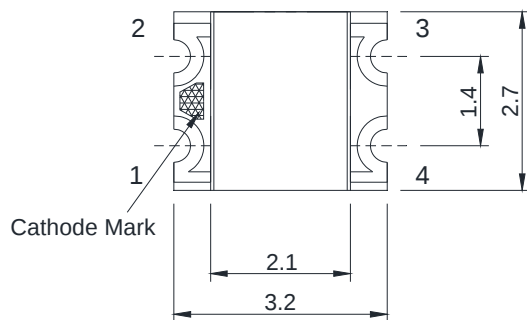
Emitted Color	P _D (mW)	I _F (mA)	I _{FP} (mA)	Iron Solder(°C)	I _R (uA)@V _R =5V	Topr(°C)	Tstg(°C)
Red	60	25	100 *	350 ± 5 3 sec	10	-40~+85	-40~+90
Blue	60	25	100 *		50	-40~+85	-40~+90

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:

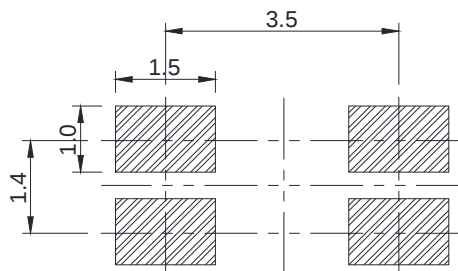
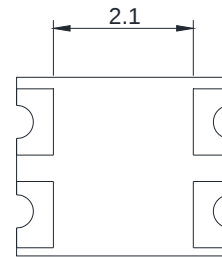
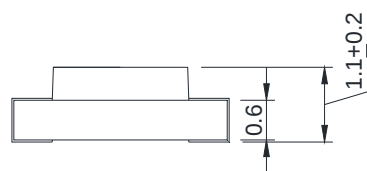
unit:mm



Red
2 - ○ — | — ○ + 3

Blue
1 - ○ — | — ○ + 4

Polarity

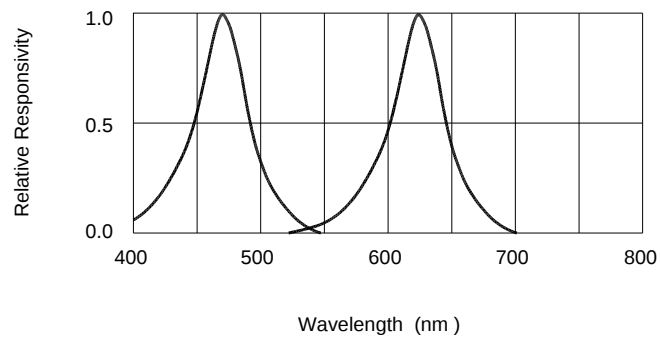
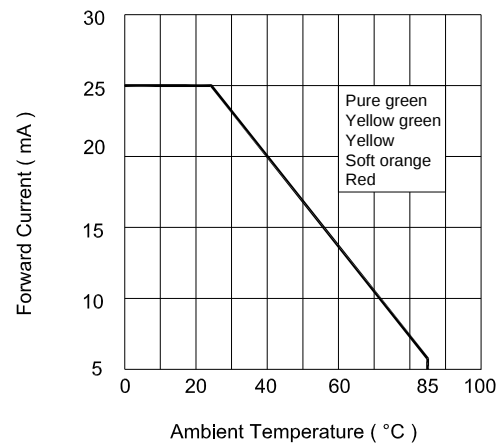
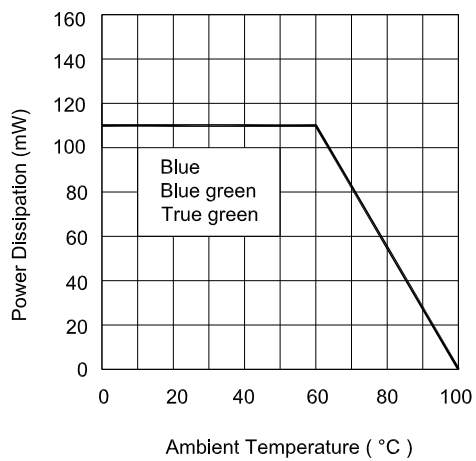
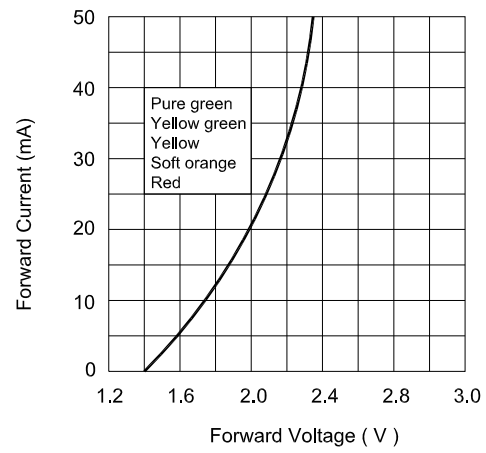
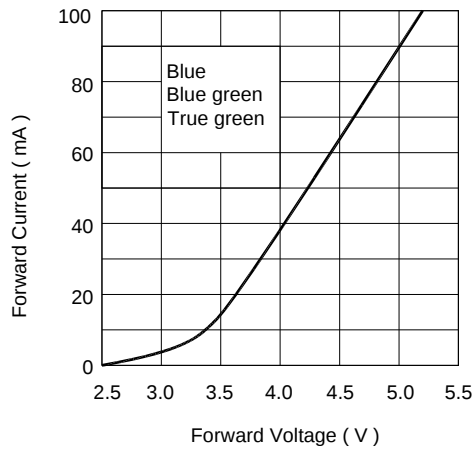


Recommended Soldering Pad

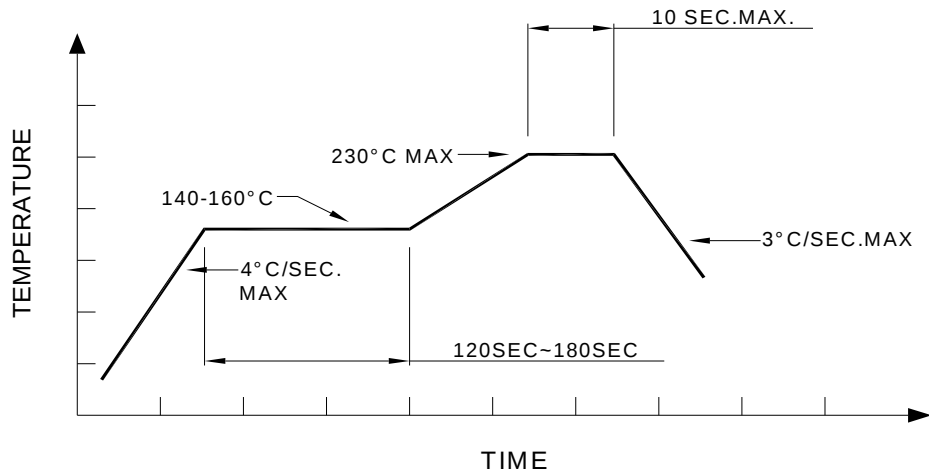
Notes:

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

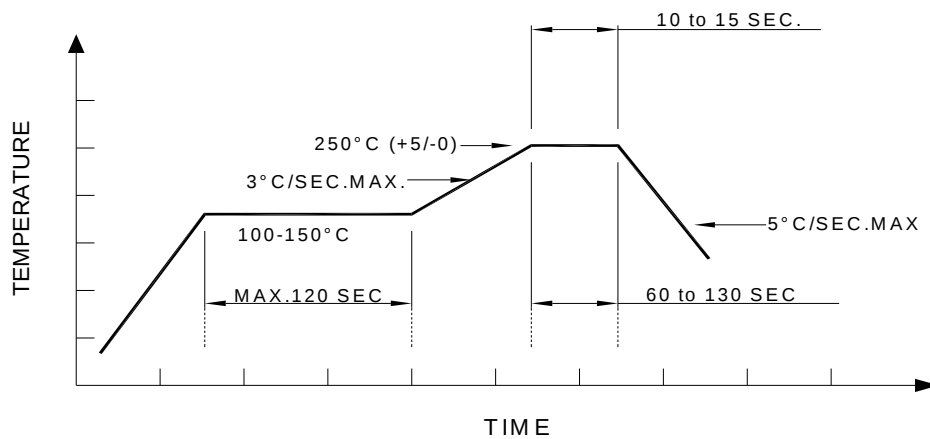
Optical Characteristics Curves



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.