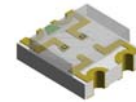


## 3227 Package Bi-Color SMD LED

### VS QJH8

#### 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 LEDs are made from AlGaInP 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, Yellow/Red or even Red/Orange. 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	$\lambda$ (nm)		Iv(mcd)		VF(Volt)		View Angle	Lens
		$\lambda d$	$\lambda p$	Min	Typ.	Typ.	Max.		
VS QJH8	Green 	573	575	28	45	2.0	2.4	140	Clear
	Red 	624	632	45	90	2.0	2.4		

#### Absolute Maximum Ratings (at Ta=25°C)

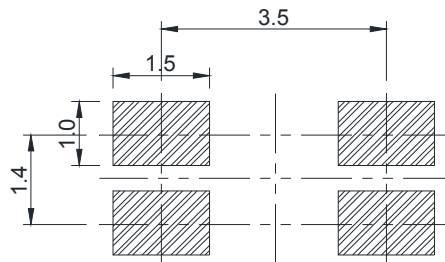
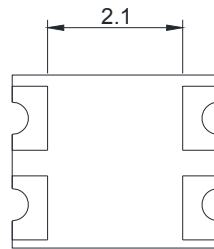
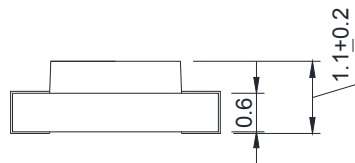
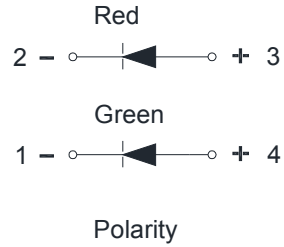
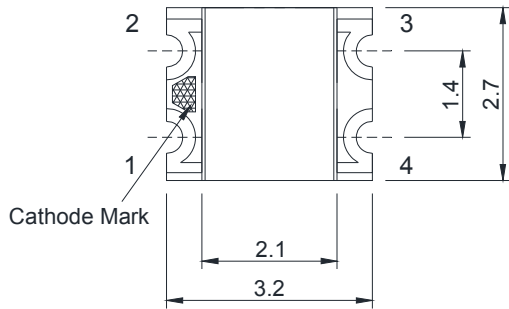
Emitted Color	P <sub>D</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)	Iron Solder(°C)	I <sub>R</sub> (uA)@V <sub>R</sub> =5V	Topr(°C)	Tstg(°C)
Green	60	25	100 *	350 ± 5 3 sec	10	-40~+85	-40~+90
Red	60	25	100 *		10	-40~+85	-40~+90

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.

\* I<sub>FP</sub> = Peak Forward Current under 1/10 duty, 1KHz condition

**Package Dimension:**

unit:mm

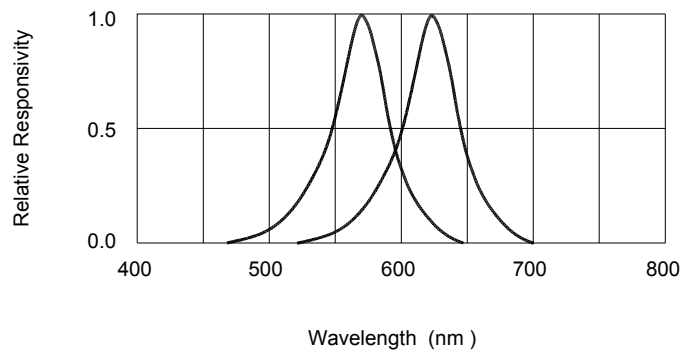
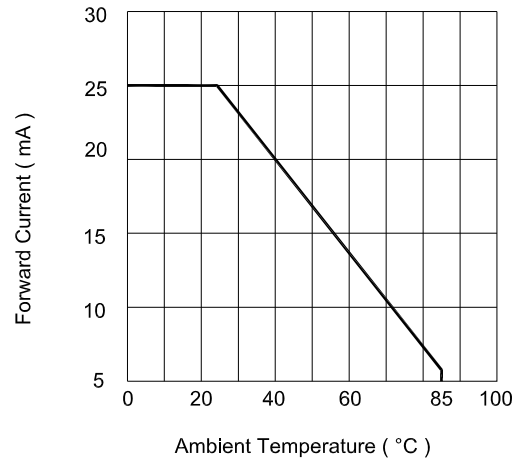
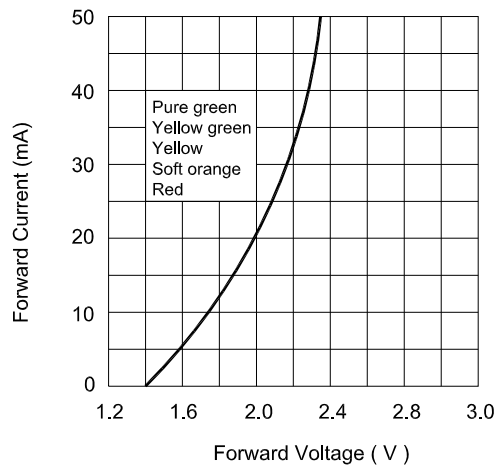
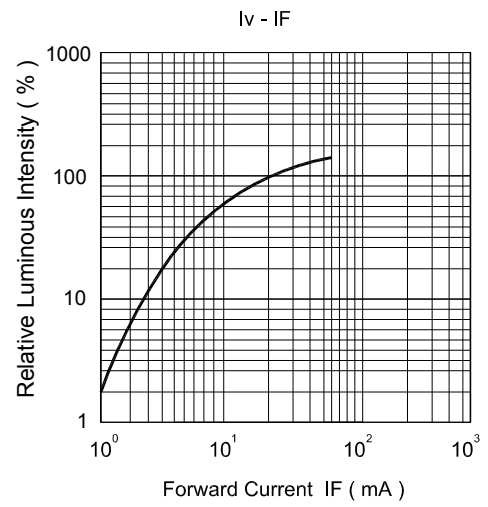
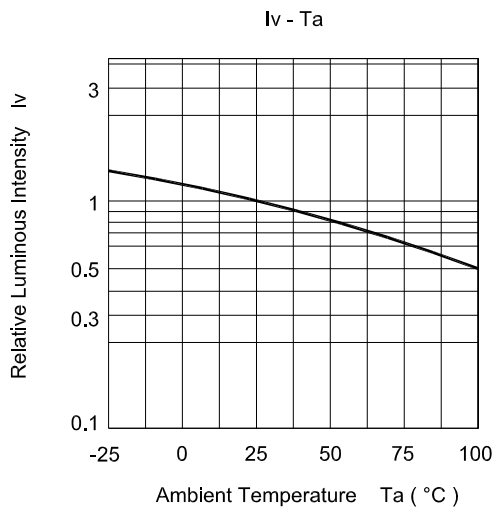


Recommended Soldering Pad

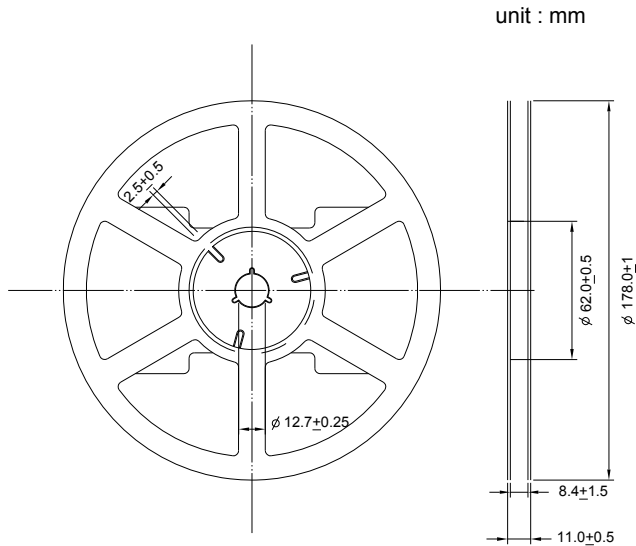
**Notes:**

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

## Optical Characteristics Curves



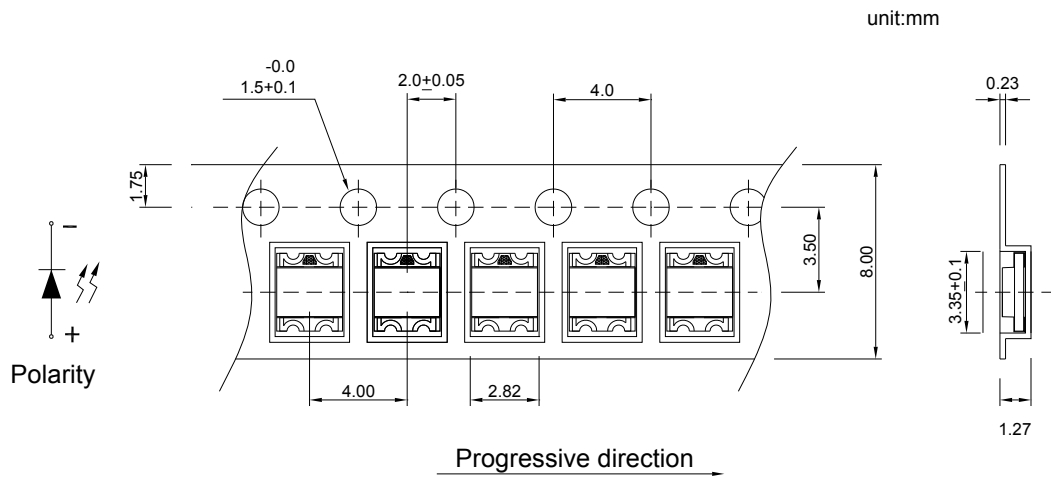
**Reel Dimension:**



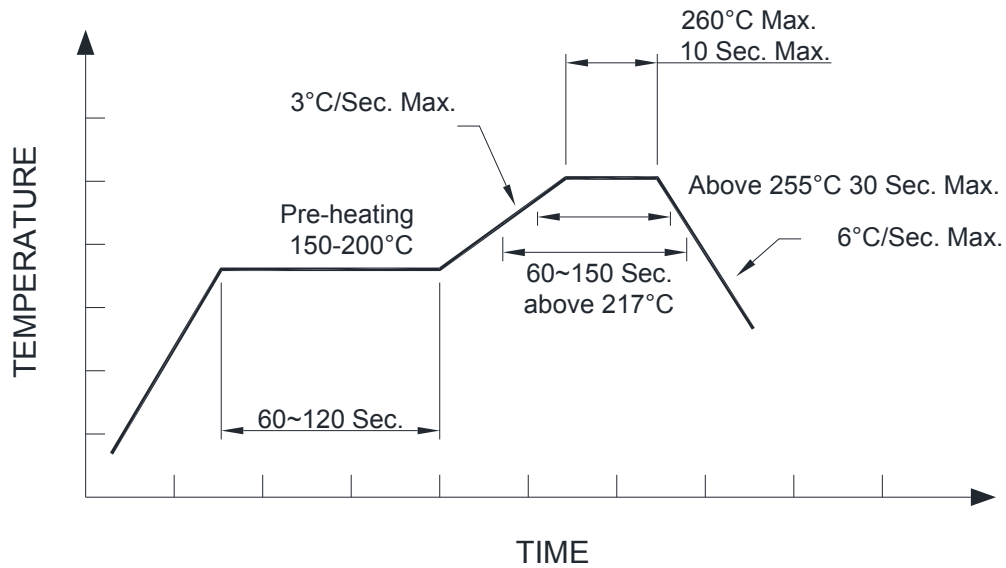
**Note:**

Available in 8mm carrier tape on 178mm diameter reels. (2,000 pieces)

**Tape Dimension:**



**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.