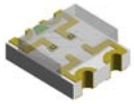
3227 Package Bi-Color SMD LED

VS Q83H8

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 & 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, 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

RoHS

Pb
pb-free

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 Q83H8	Yellow-orange	605	611	57	120	2.0	2.4	140	Clear
	True-green	525	518	140	200	3.5	3.8		

Absolute Maximum Ratings (at Ta=25℃)

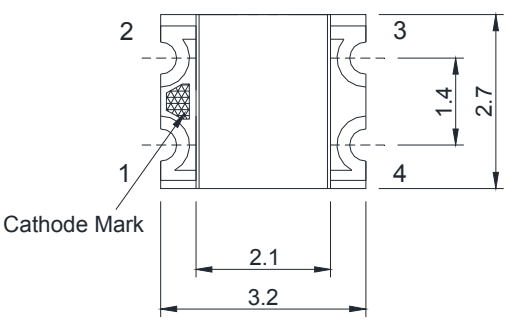
Emitted Color	P_D(mW)	IF(mA)	IFP(mA)	Iron Solder(℃)	IR(uA)@VR=5V	Topr(℃)	Tstg(℃)
Yellow-orange	60	25	60 *	350 ± 5 3 sec	10	-40~+85	-40~+90
True-green	90	25	100 *		50	-40~+85	-40~+90

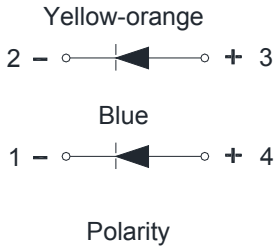
Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specify ratings in this table will result degradation of LED life- span and may cause LED to fail.

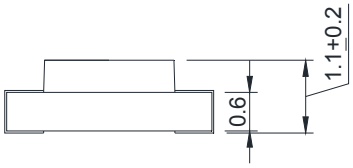
* IFP = Peak Forward Current under 1/10 duty, 1KHz condition

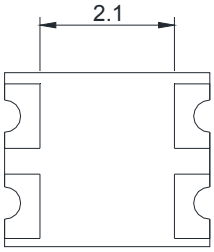
Package Dimension:

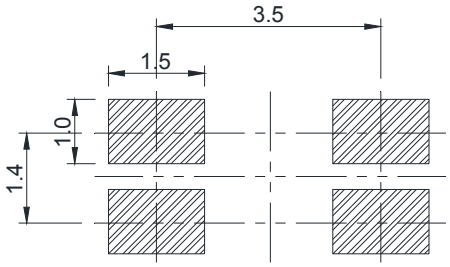
unit:mm











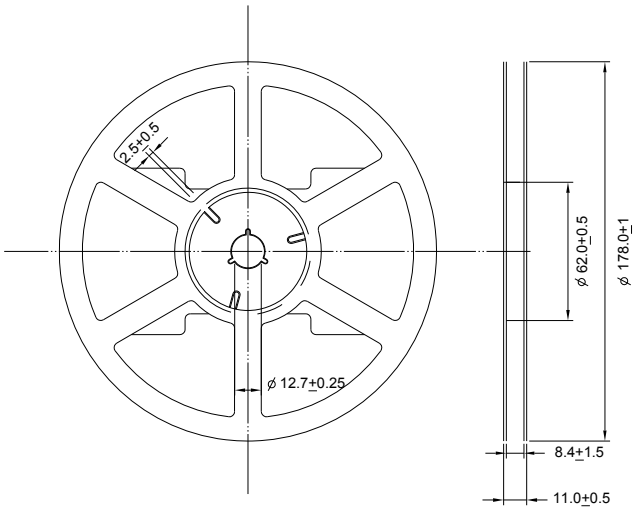
Recommended Soldering Pad

Notes:

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

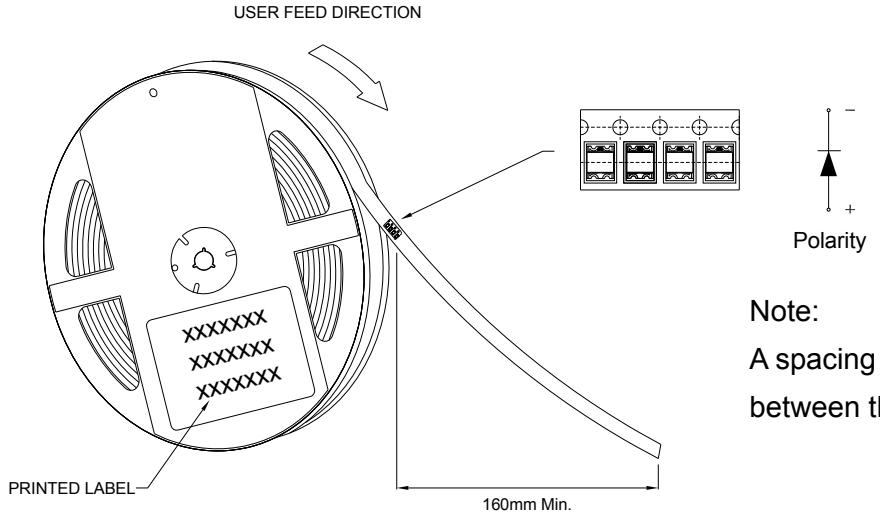
Reel Dimension:

unit : mm



Note:

Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)

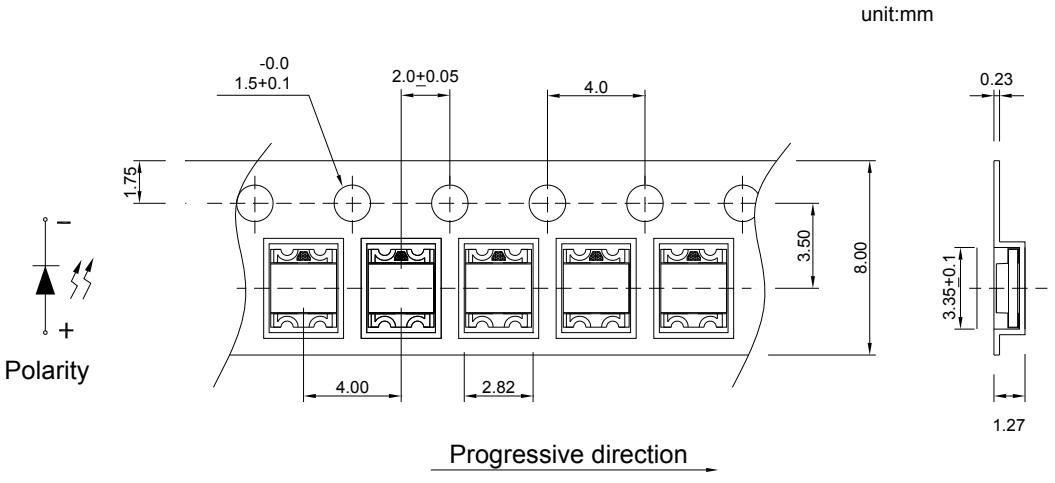


Note:

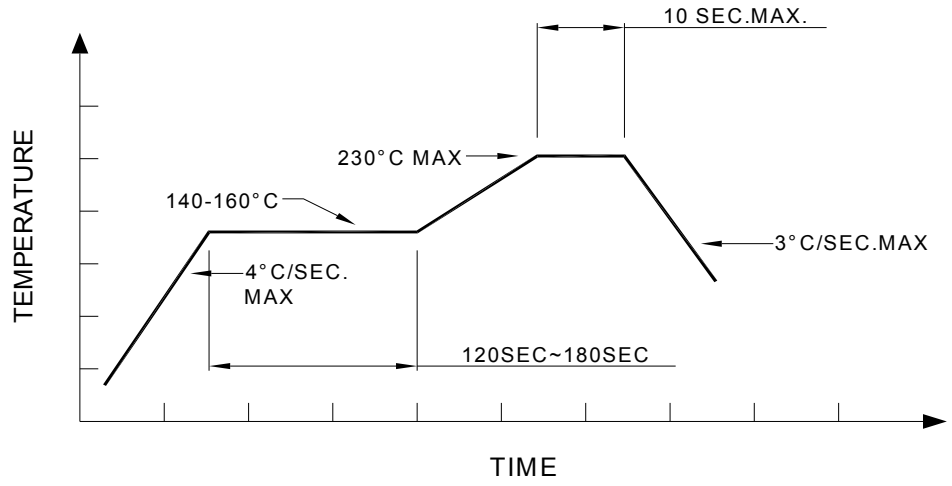
A spacing of approximately 160mm between the front edge of tape

Tape Dimension:

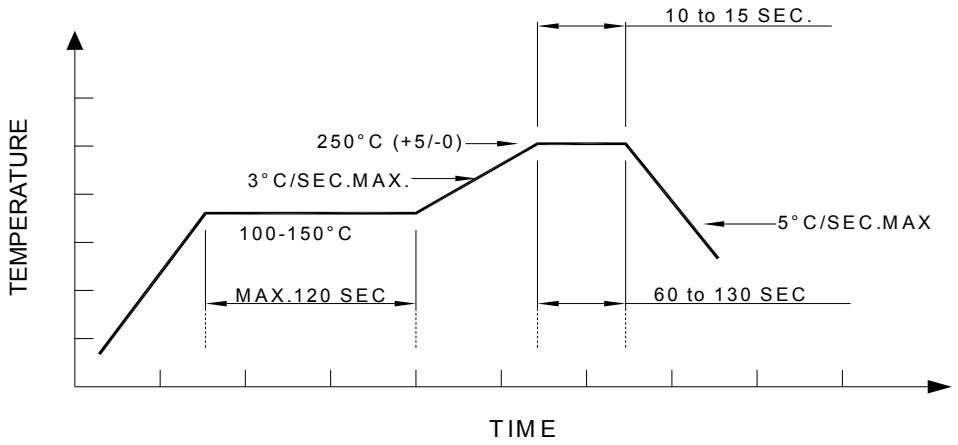
unit:mm



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.