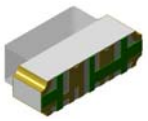
2.0x1.0mm Side View SMD Bi-Color LED

VS 7QH8M

Description

This is Bi-Color side view SMD LED with dimension 2.0 mm (L) * 1.0 mm (W) * 0.6 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 130 degree viewing angle and suitable for backlighting purpose. The available colors are Red/Green, Yellow/Orange 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

RoHS

Pb
pb-free

Electronic Optical Characteristics (at 5mA):

Part Number	Color	λ (nm)		Iv(mcd)		VF(Volt)		View Angle	Lens
		λ d	λ p	Min	Typ.	Min.	Max.		
VS 7QH8M	Red	631	639	14	25	1.6	2.2	130	Clear
	True-green	525	518	45	75	2.7	3.2		

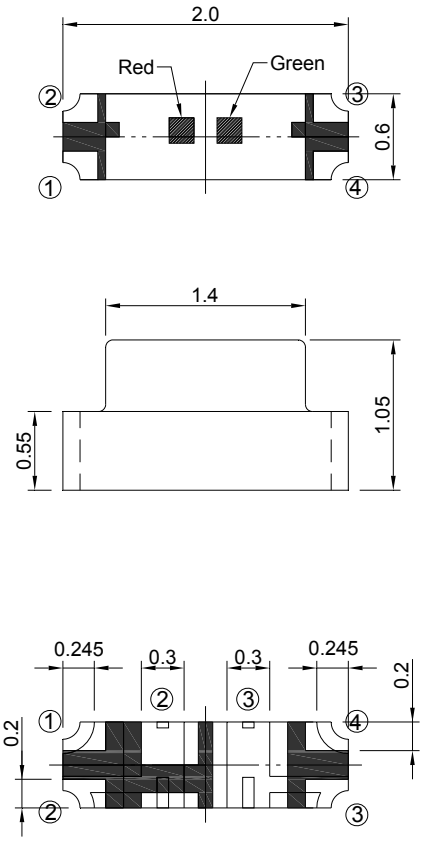
Absolute Maximum Ratings (at Ta=25℃)

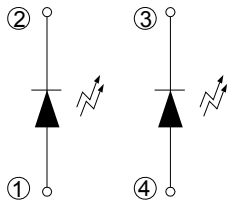
Emitted Color	P_D(mW)	I_F(mA)	Iron Solder (℃)	I_R(uA)@V_R=5V	Topr(℃)	Tstg(℃)
Red	60	25	350 ± 5 3 sec.	10	-40~+85	-40~+90
True-green	95	25		50	-40~+85	-40~+90

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

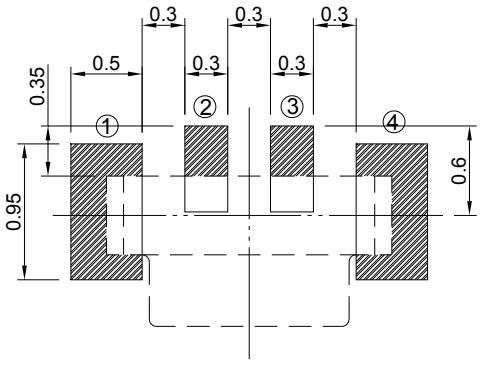
Package Dimension:

unit:mm





Polarity



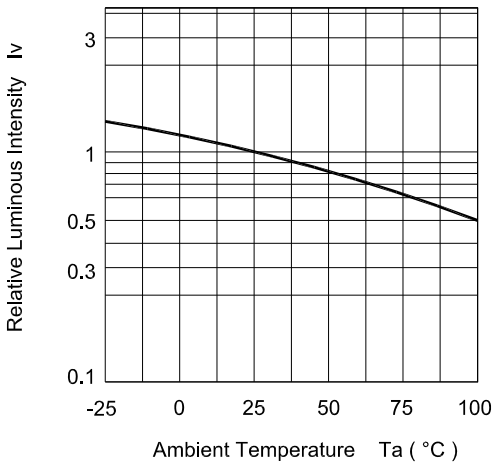
Recommended Soldering Pad

Notes:

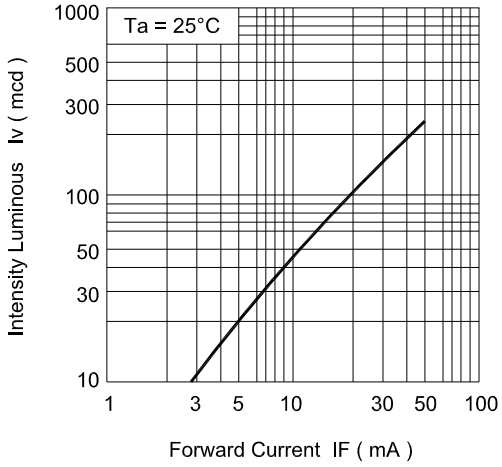
1. All dimensions are millimeters.
2. Tolerance is ± 0.2mm unless otherwise specified.
3. Specifications are subject to change without notice.

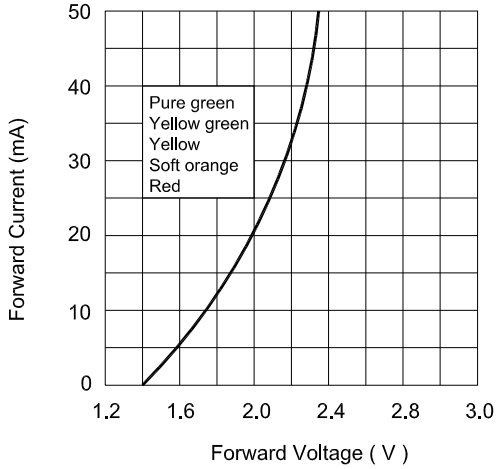
Optical Characteristics Curves

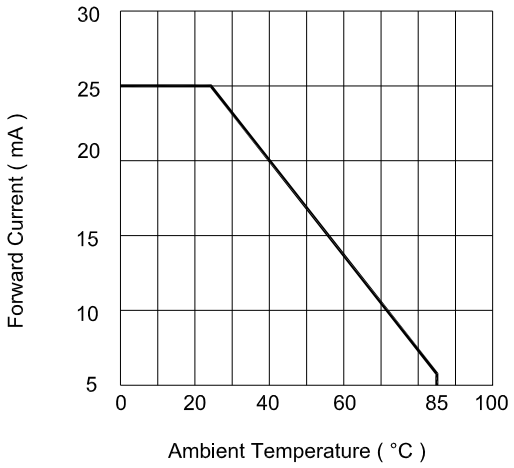
Iv - Ta

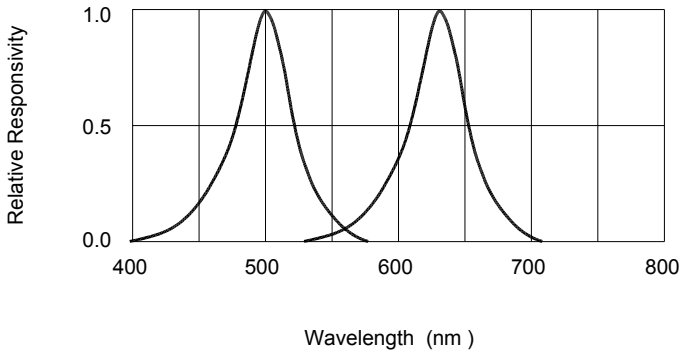


Iv - IF



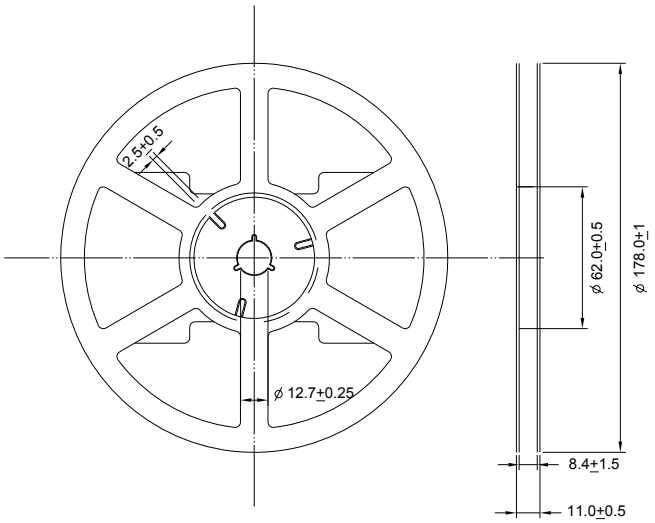




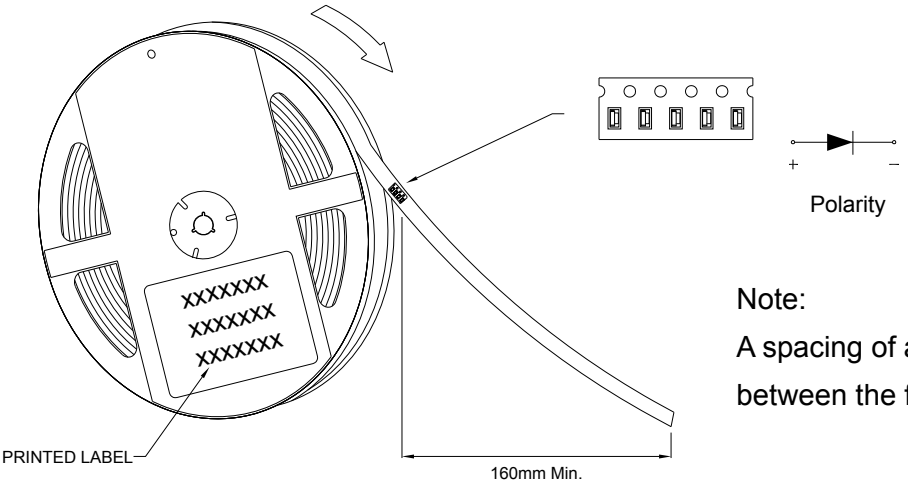


Reel Dimension:

unit : mm



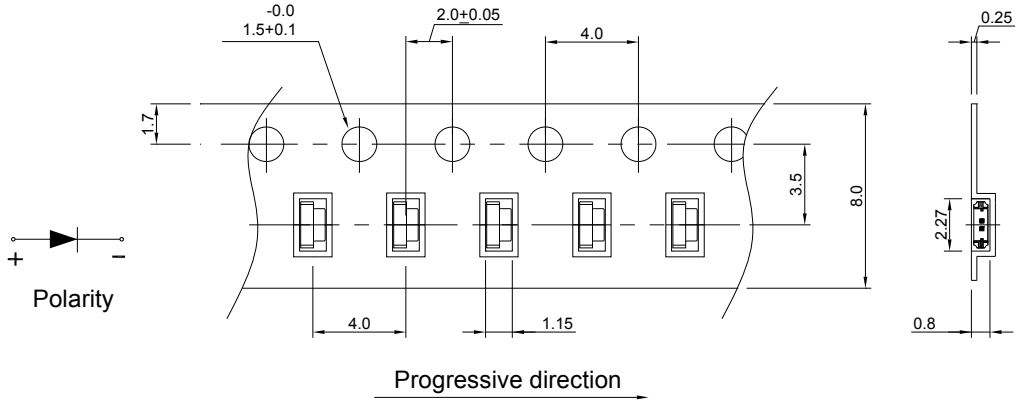
Note:
Available in 8mm carrier tape on 178mm diameter reels. (3000 pieces)



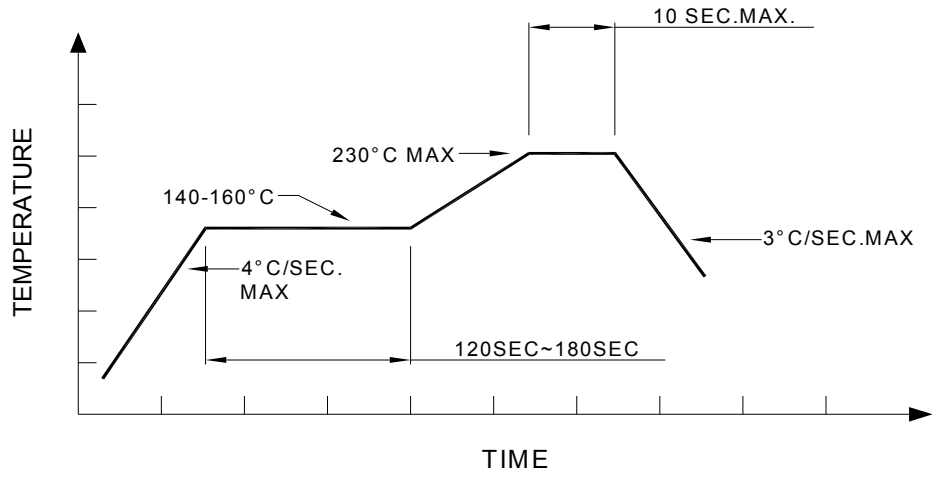
Note:
A spacing of approximately 160mm between the front edge of tape

Tape Dimension:

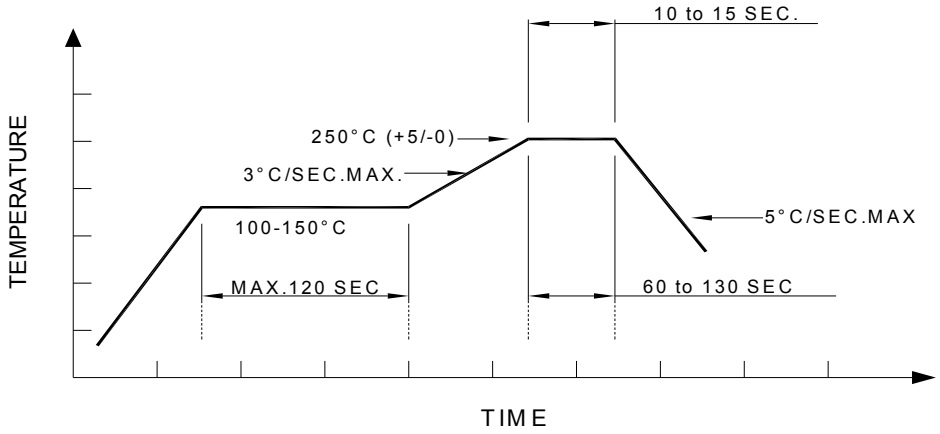
Unit : mm



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.