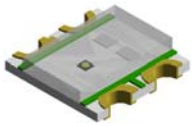
1.6x1.6x0.35mm RGB SMD LED C.A

VS MRD8

Description

This is Full Color Top View SMD LED with dimension 1.60mm(L) * 1.60 mm(W) * 0.35 mm(H), common anode configuration. The unique of these LED are made from AlGaInP chips and InGaN technology that provide high luminous intensity at low driving current. The lens design provides 120 degree viewing angle and suitable for lighting indicator purpose.



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)		Lens Color	Iv(mcd)		View Angle (2θ1/2)	VF(V)	
		λ d	λ p		Min.	Typ.		Typ.	Max.
VS MRD8	Red	624	632	Clear	71	110	120	2.0	2.4
	Green	525	518		112	200		3.3	3.8
	Blue	470	468		28	55		3.3	3.8

Absolute Maximum Ratings (at Ta=25℃)

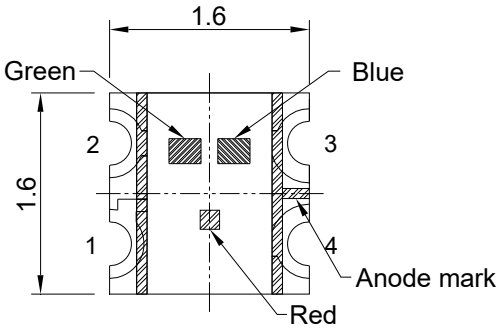
Emitted Color	P_D(mW)	I_F(mA)	I_{FP}(mA)	I_R(uA)@V_R=5V	Topr(℃)	Tstg(℃)
Red	60	25	60 *	10	-40~+85	-40~+100
Green	110	25	100 *	50	-40~+85	-40~+100
Blue	110	25	100 *	50	-40~+85	-40~+100

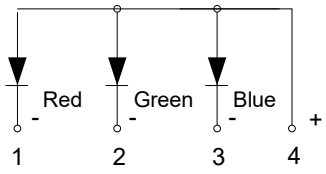
Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specified ratings in this table will result degradation of LED life-span and may cause LED to fail.

*I_{FP} = Peak Forward Current under 1/10 duty, 1KHz condition

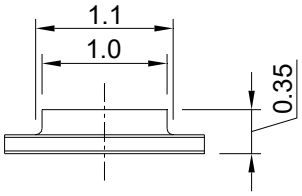
Package Dimension:

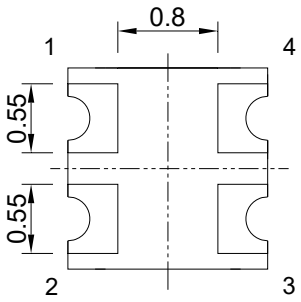
unit:mm

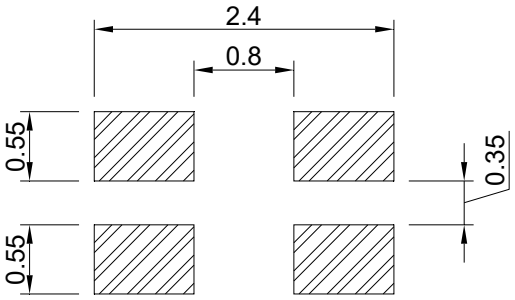




Polarity





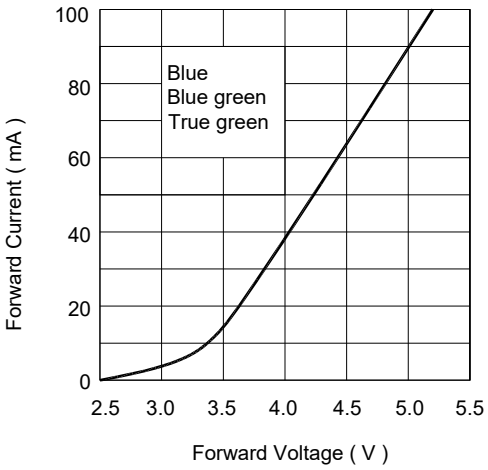


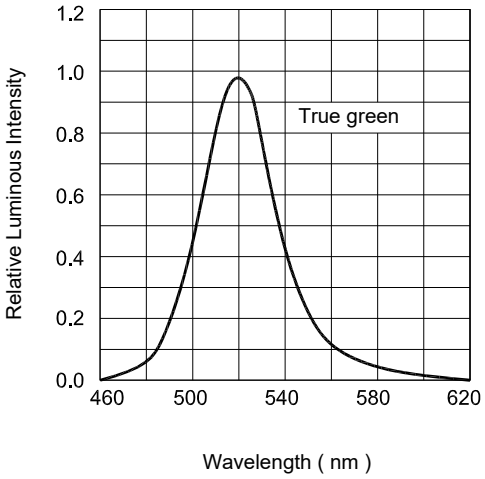
Recommended Soldering Pad

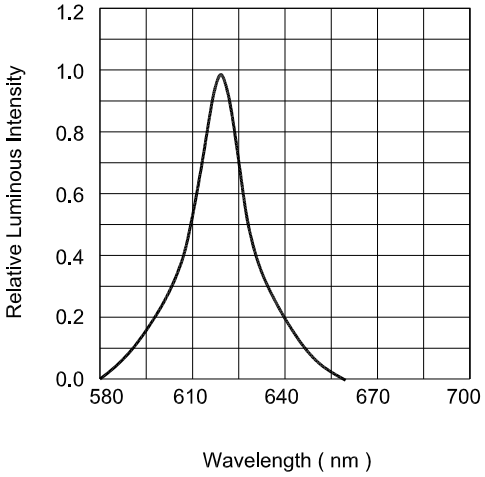
Notes:

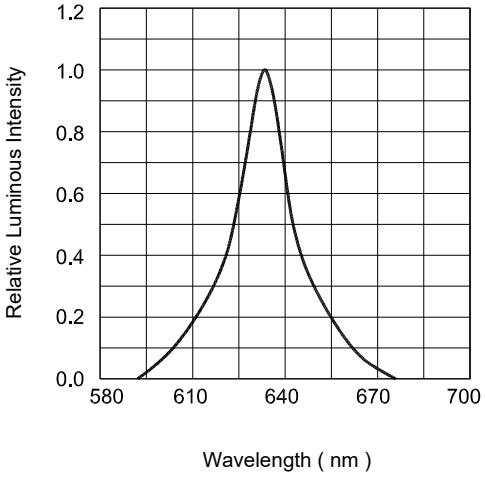
1. All dimensions are millimeters.
2. Tolerance is ± 0.2mm unless otherwise specified.
3. Specifications are subject to change without notice.

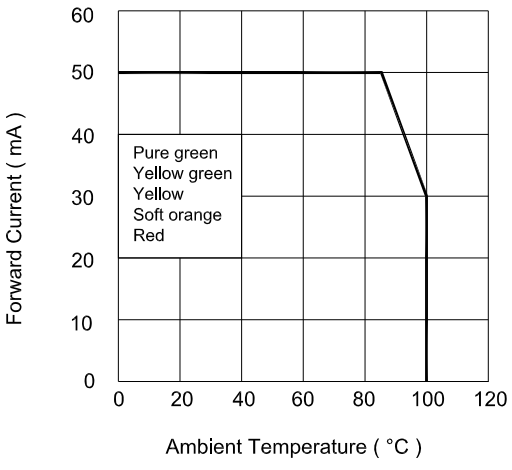
Optical Characteristics Curves

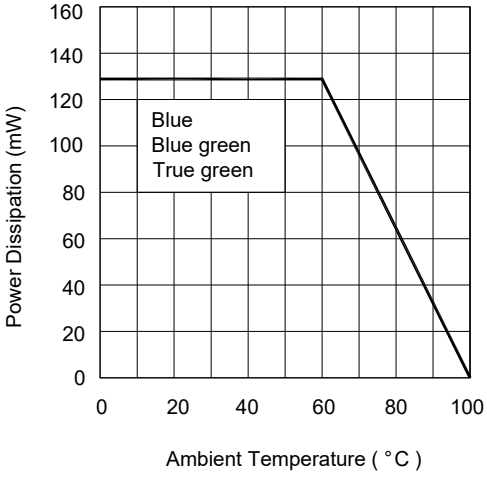






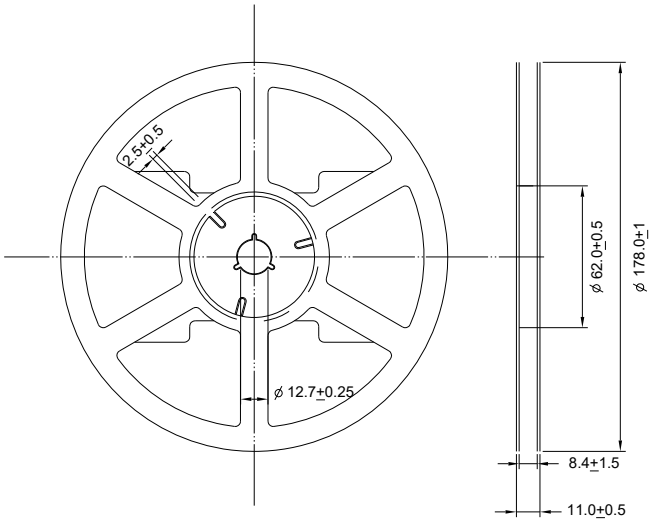






Reel Dimension:

unit : mm

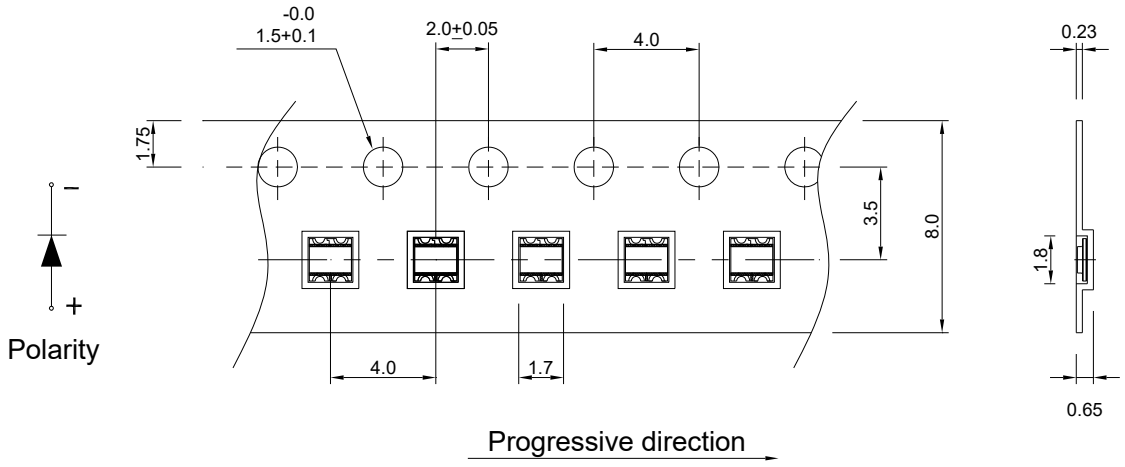


Note:

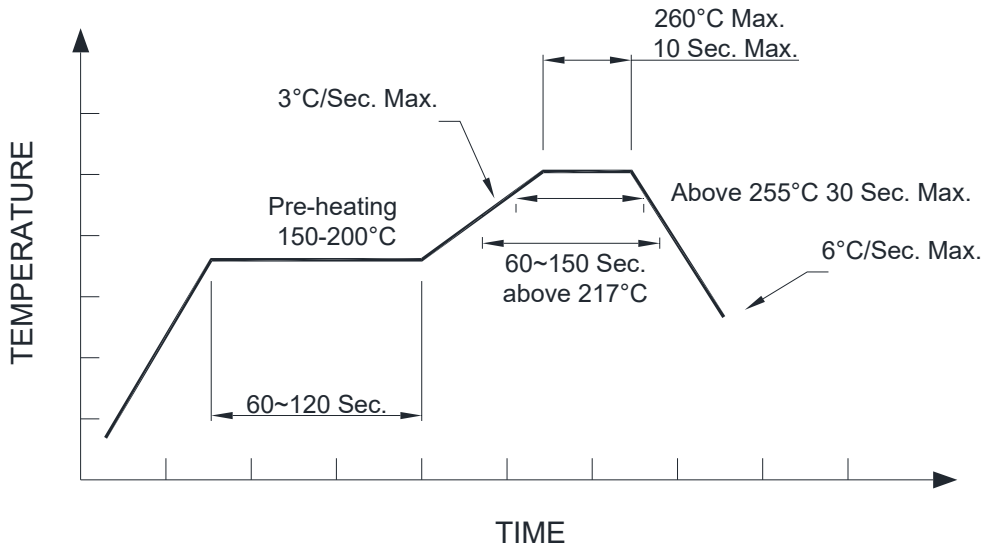
Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)

Tape Dimension:

unit:mm



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.