

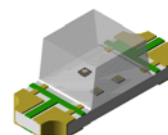
Reverse Package SMD Full Color LED

VS 8RK8R

Description

This is full color SMD LED series with dimension 3.2 mm (L) * 1.25 mm (W) * 1.1 mm (H). The unique of these LEDs are made from AlGaInP & InGaN chip that provide high luminous intensity at low driving current. The lens design provides 130 degree viewing angle and suitable for backlighting purpose. The wavelengths and luminous Intensities of this series are grouped under 20mA for uniformity. These LED are suitable for multiple usages in series connection applications.

ESD protection:R:2000V, G:150V, B:150V



Applications

- Industrial control systems signal indicator
- Automotive features
- Front panel indicator



Electronic Optical Characteristics (at 20mA):

Part Number	Color	λ (nm)		Iv(mcd)		VF(Volt)		View Angle	Lens
		λ_d	λ_p	Min	Typ.	Typ.	Max.		
VS 8RK8R	True-green 	525	519	110	170	3.3	3.8	130	Clear
	Red 	625	630	60	80	2.0	2.4		
	Blue 	470	465	40	65	3.3	3.8		

Absolute Maximum Ratings(at Ta=25°C)

Emitted Color	P _D (mW)	I _F (mA)	I _{FP} (mA)	I _R (uA)@VR=5V	T _{opr} (°C)	T _{stg} (°C)
True-green	110	25	100 *	50	-40~+85	-40~+100
Red	60	25	60 *	10	-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

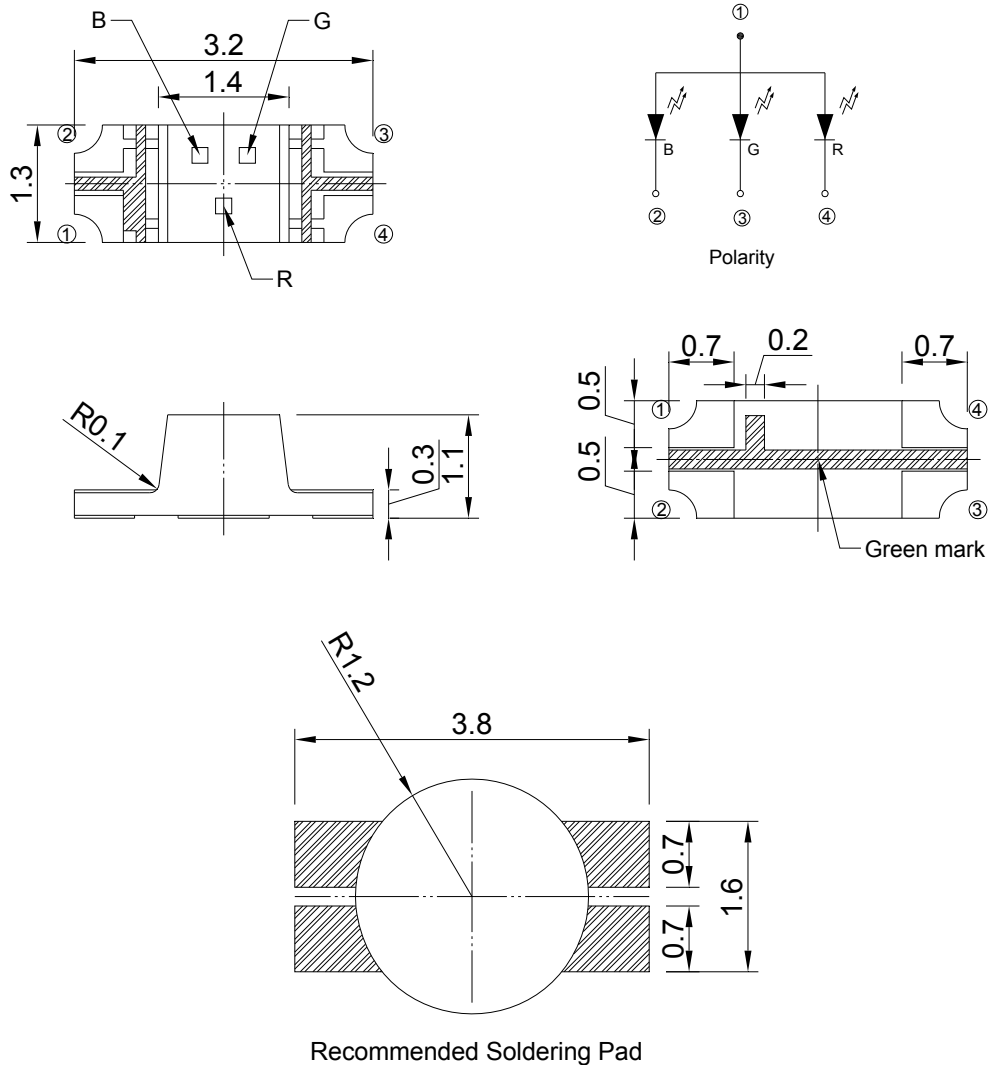
Version:1.0

Spec: VS 8RK8R

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Package Dimension:

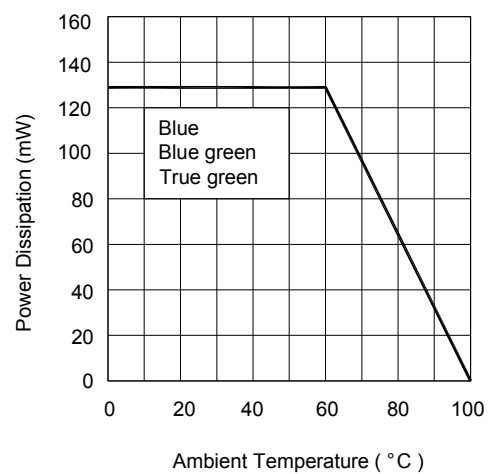
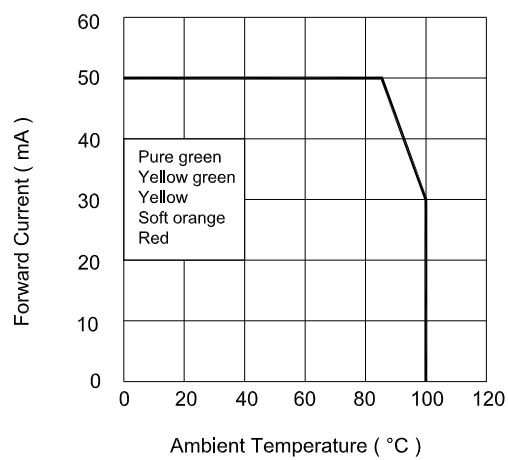
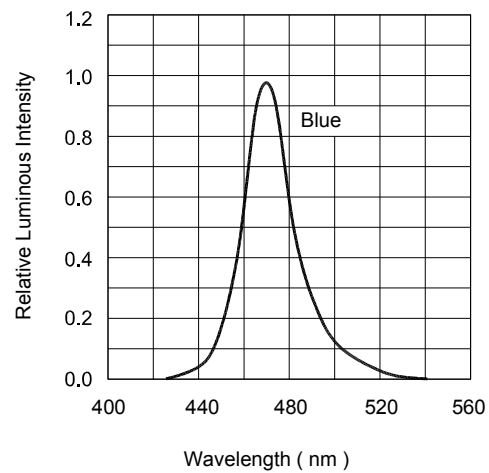
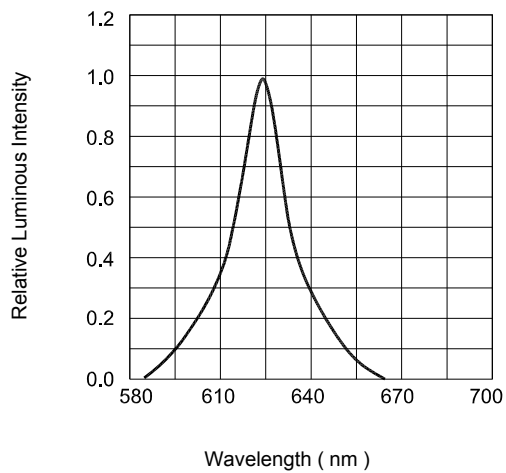
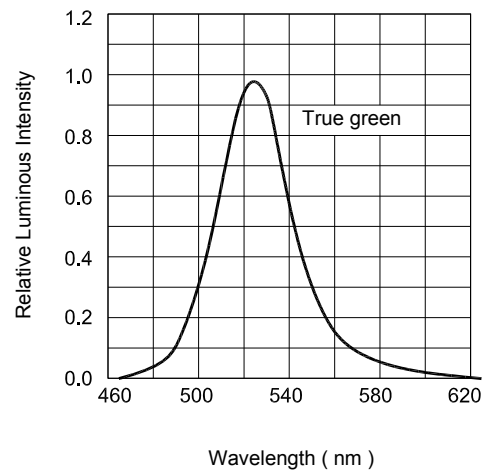
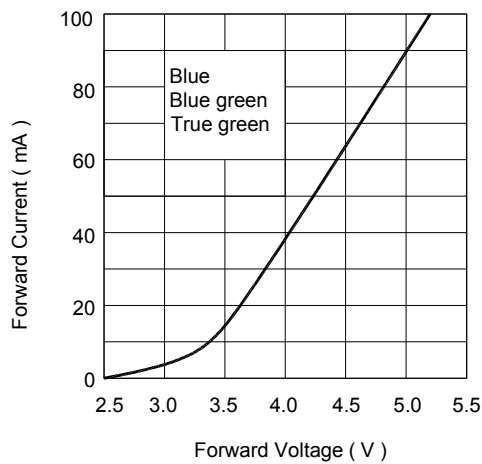
unit:mm



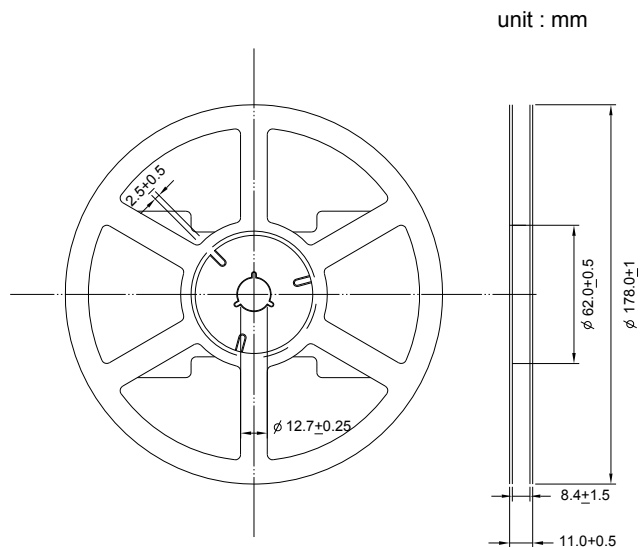
Notes:

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



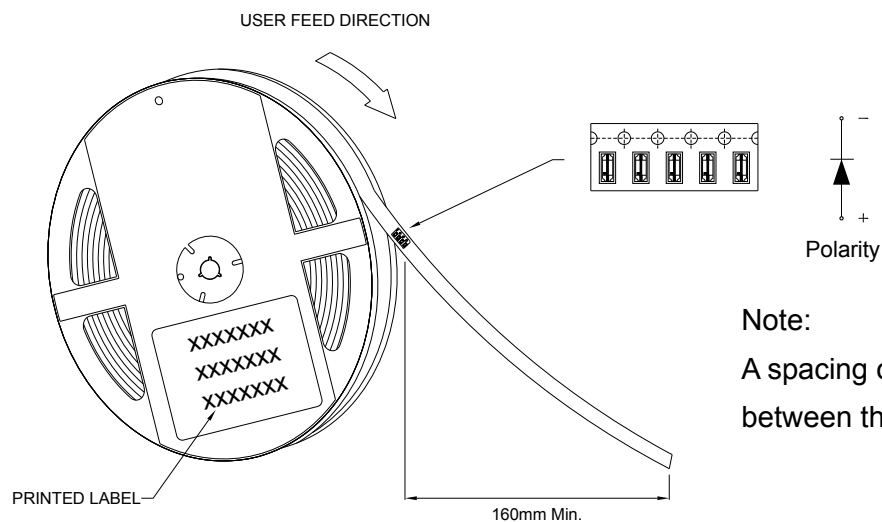
Reel Dimension:



Note:

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

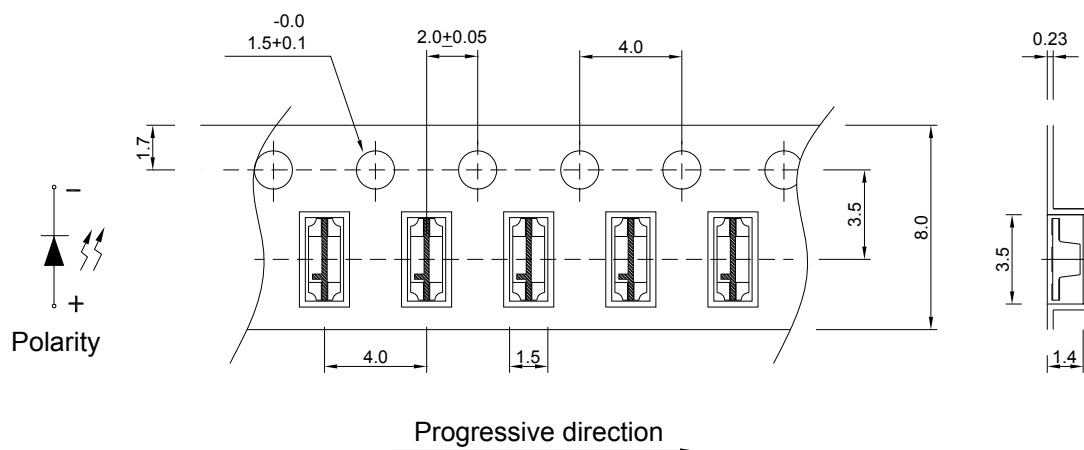
Tape Dimension:



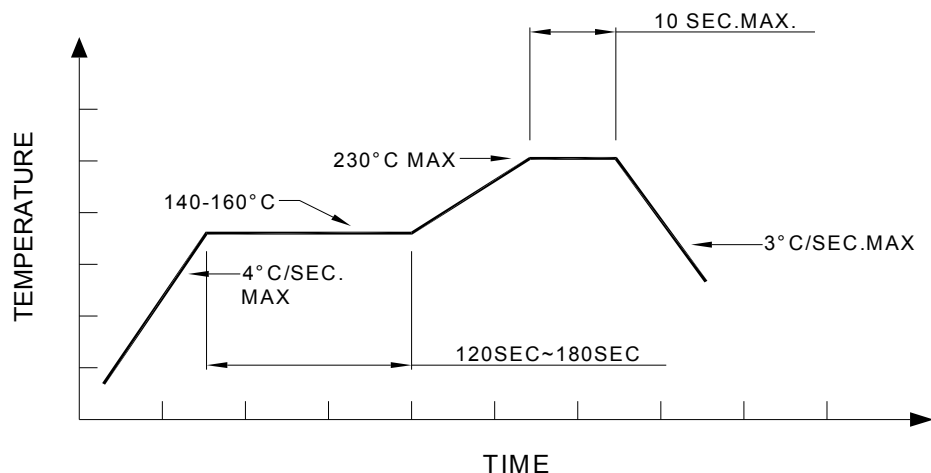
Note:

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

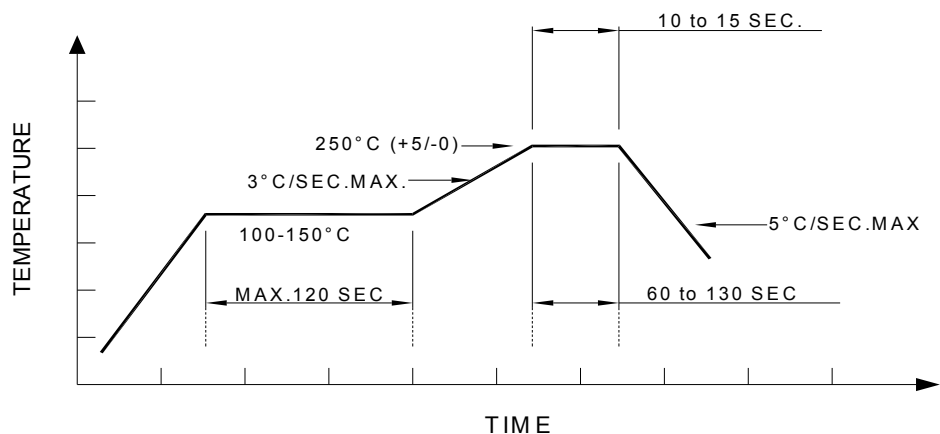
Unit : mm



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.