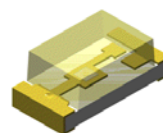


0603 Package White LED 0.6mm Height

VS 2WD9.40

Description

The major breakthrough in VS 2WD9 is WHITE color emitted package in 0603 dimension SMT LED. This series of top emitting devices are operating under low current driving condition suitable for backlighting applications or applications call for light emitting from unique angle.

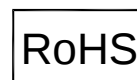


Feature

- Package: Top emitting SMT-package, brightness, VF and color categorized for each reel
- Technology: InGaN with phosphor
- Assembly: Suitable for all SMT assembly methods

Application

- General lighting indicator
- Backlighting (LCD, switches , keys, display)
- Interior automotive



Electronic Optical Characteristics (at 20mA):

Part Number	Emitted Color	C.C.		Lens Color	Iv(mcd)		View Angle	VF(V)	
		X	Y		Min.	Max.		Typ.	Max.
VS 2WD9.40	White	0.25	0.23	Yellow Diff.	285	715	130	3.2	3.7

Absolute Maximum Ratings (at Ta=25°C)

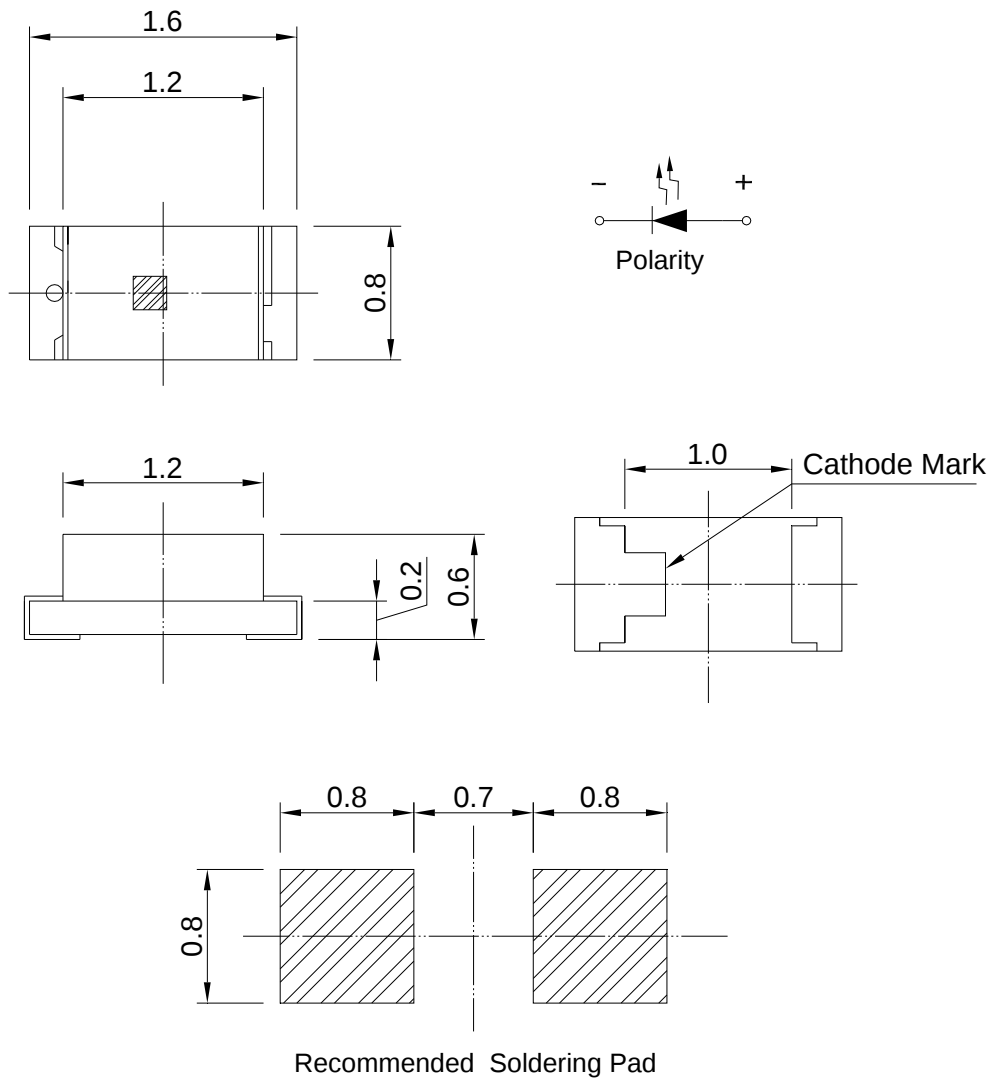
P _D (mW)	I _{FP} (mA)	I _F (mA)	Iron Solder (°C)	I _R (uA)@V _R =5V	Topr(°C)	Tstg(°C)
75	40*	20	350 ± 5 for 3 sec.	50	-40~+85	-40~+90

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.

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

Package Dimension:

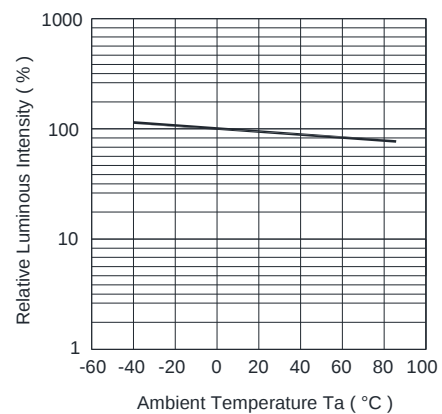
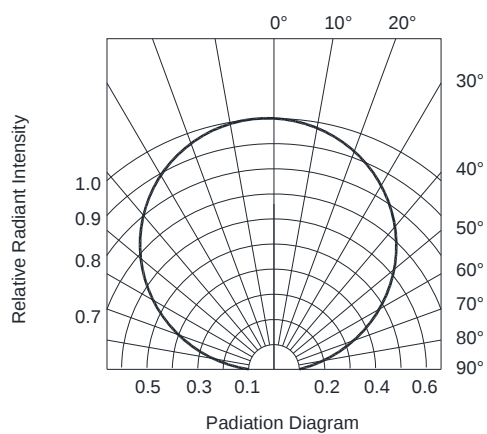
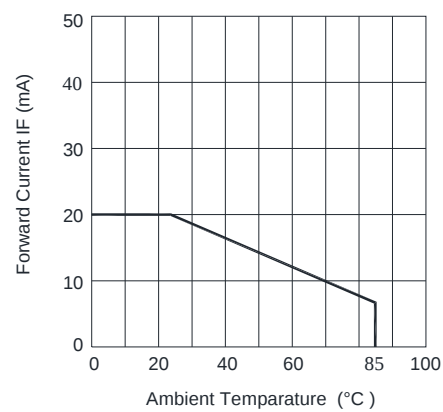
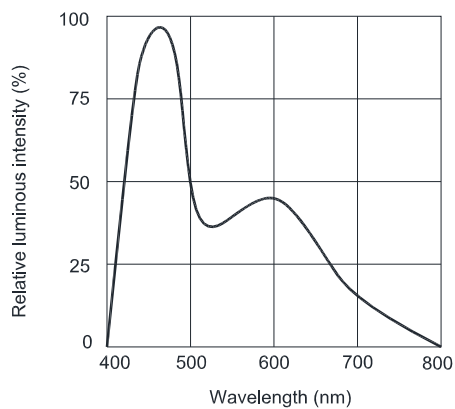
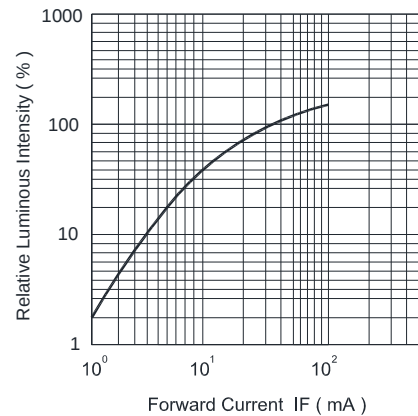
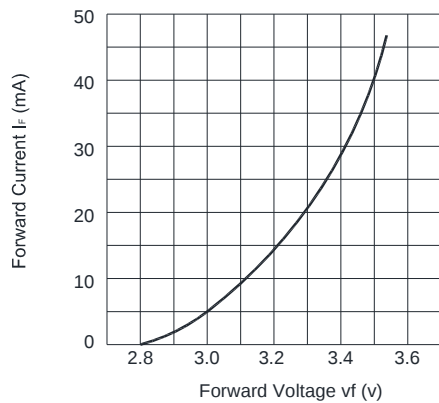
unit : mm



Notes:

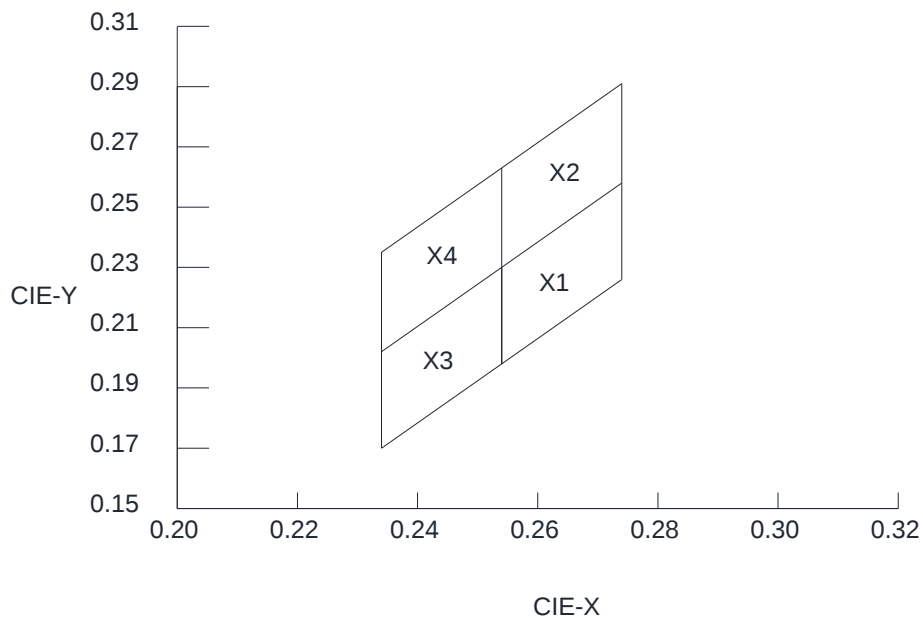
1. All dimensions are millimeters.
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.

Optical Characteristics Curves

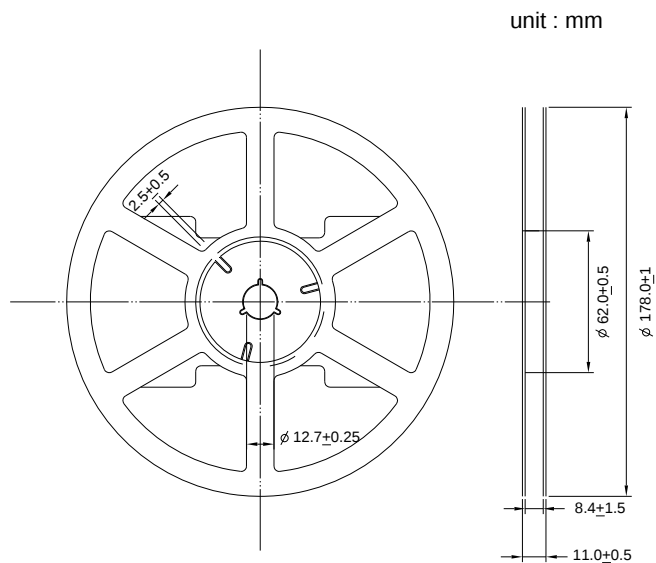


Color Ranks ($I_F=20\text{mA}$, $T_a=25^\circ\text{C}$)

Rank	CIE x	CIE y
X1	0.254	0.198
	0.254	0.230
	0.274	0.258
	0.274	0.226
X2	0.254	0.230
	0.254	0.263
	0.274	0.291
	0.274	0.258
X3	0.234	0.170
	0.234	0.202
	0.254	0.230
	0.254	0.198
X4	0.234	0.202
	0.234	0.235
	0.254	0.263
	0.254	0.230

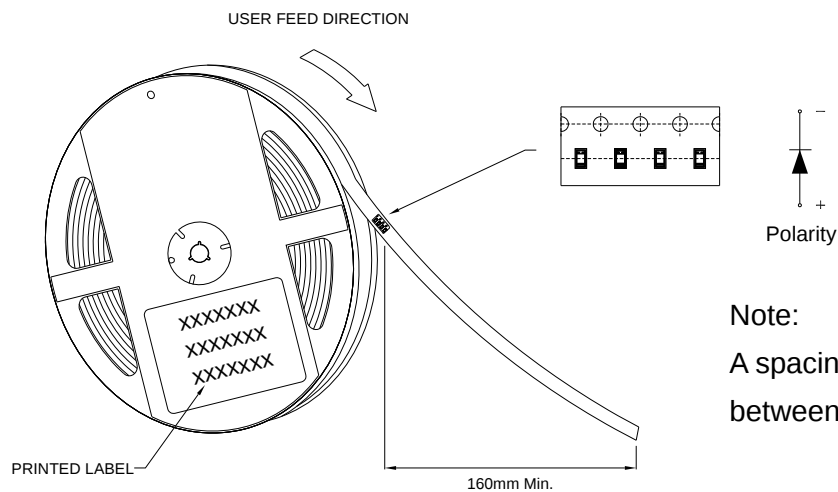


Reel Dimension:



Note:

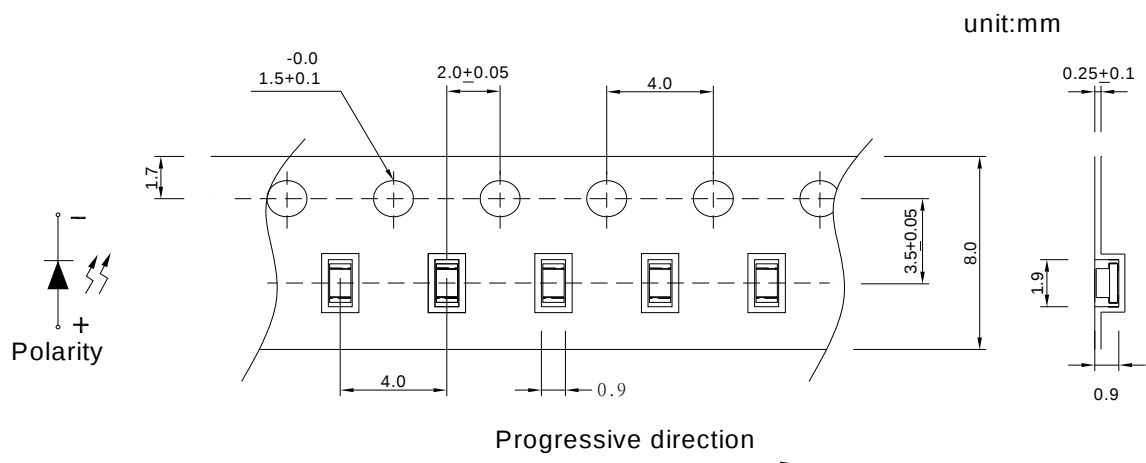
Available in 8mm carrier tape on 178mm diameter reels. (5,000 pieces)



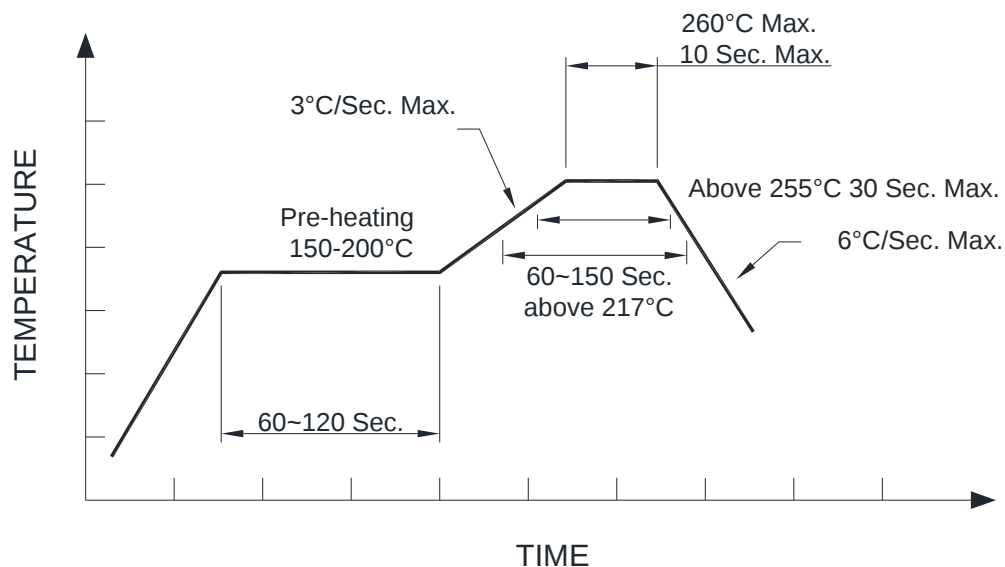
Note:

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

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.