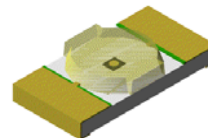


1206 Reverse Package LED

VS 8WH9

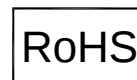
Description

The major breakthrough in VS 8WH9 is White color emitted SMD 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.



Application

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



Electronic Optical Characteristics (@ 5mA):

Part Number	Emitted Color	CCx	CCy	Lens Color	Iv(mcd)		View Angle (2θ1/2)	VF(V)	
					Min.	Max.		Typ.	Max.
VR 8WH9	White	0.29	0.30	Yellow Diffuse	45	112	140	2.6	3.2

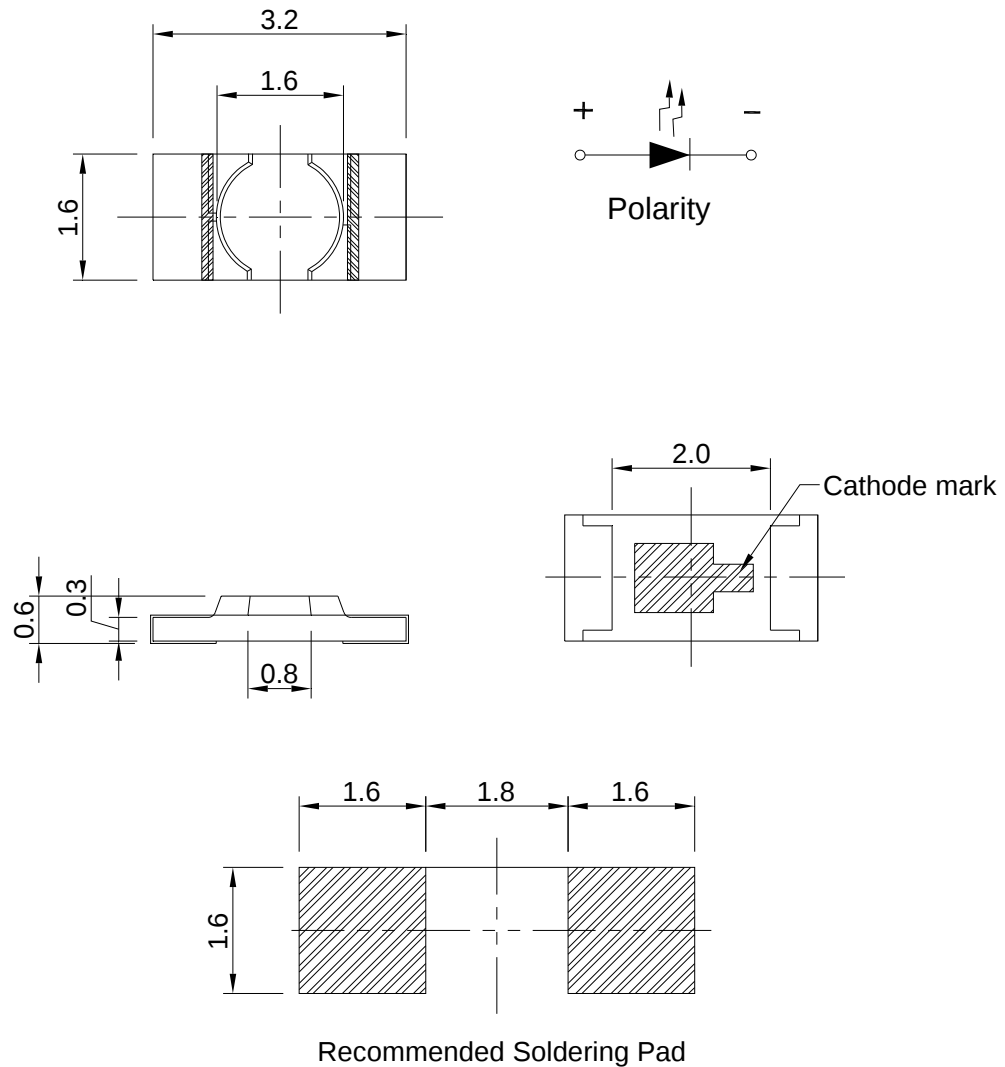
Absolute Maximum Ratings (@Ta=25°C)

Emitted Color	P _D (mW)	I _F (mA)	I _R (uA) @VR=5V	Topr (°C)	Tstg (°C)
White	110	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:

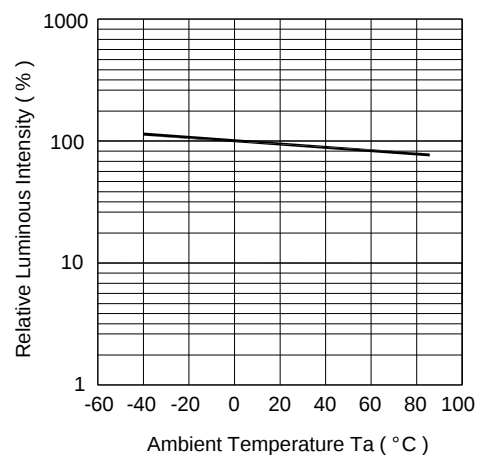
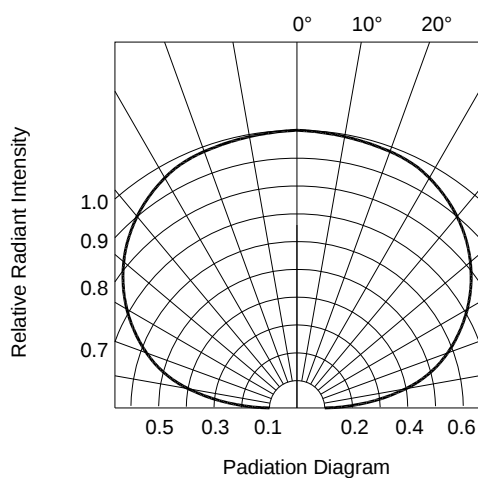
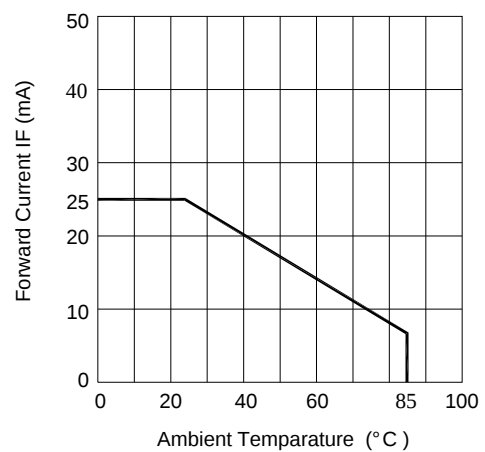
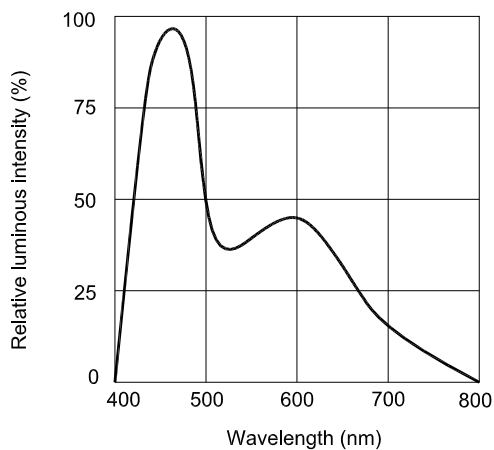
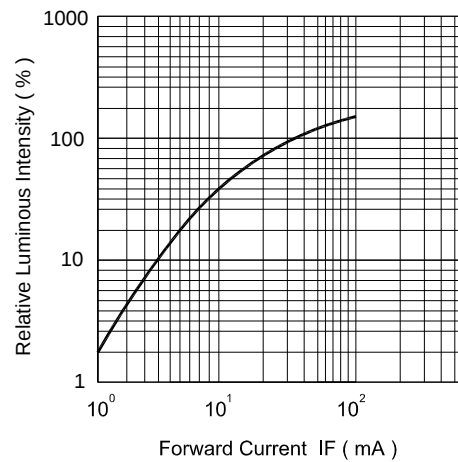
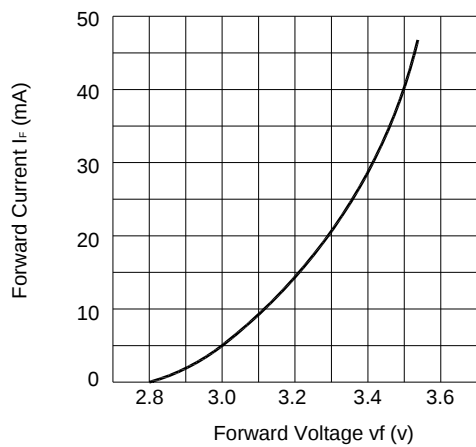
unit:mm



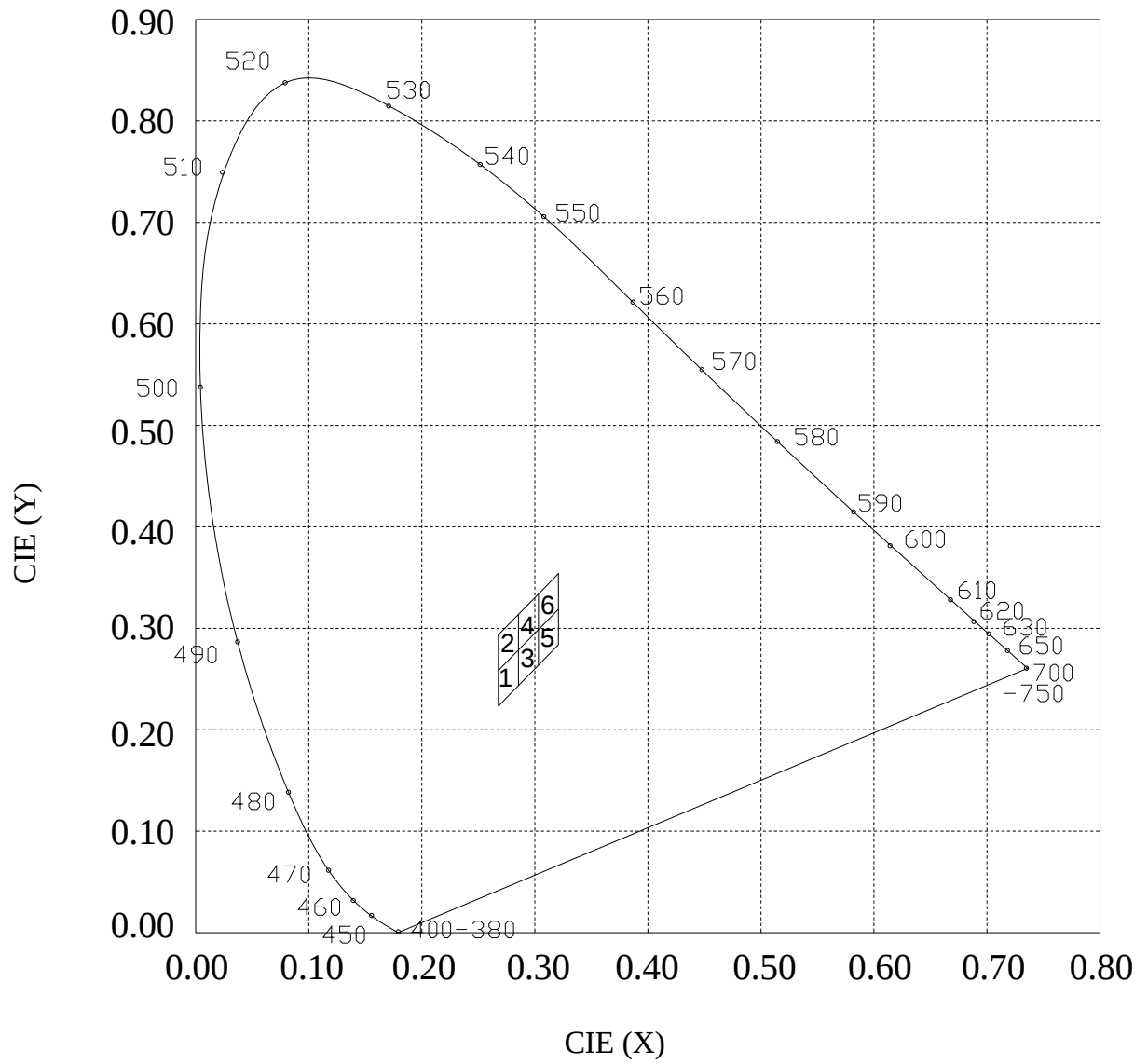
Notes:

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

Typical Electro-optical Characteristics Curves



CIE Chromaticity Diagram



Color Ranks ($I_F=5\text{mA}$, $T_a=25^\circ\text{C}$)

Rank	CIE x	CIE y
1	0.274	0.226
	0.274	0.258
	0.294	0.286
	0.294	0.254
2	0.274	0.258
	0.274	0.291
	0.294	0.319
	0.294	0.286
3	0.294	0.254
	0.294	0.286
	0.314	0.315
	0.314	0.282
4	0.294	0.286
	0.294	0.319
	0.314	0.347
	0.314	0.315
5	0.314	0.282
	0.314	0.315
	0.334	0.343
	0.334	0.311
6	0.314	0.315
	0.314	0.347
	0.334	0.376
	0.334	0.343

Measurement uncertainty of the color coordinates: ± 0.01

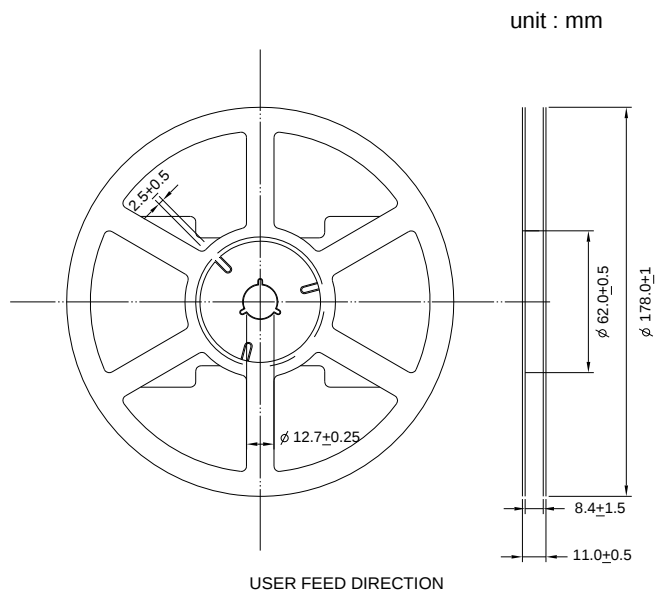
Forward Voltage Ranks (at 5mA)

$V_F(\text{V})$	6	7	8
Min.	2.70	2.85	3.00
Max.	2.85	3.00	3.20

Luminous Intensity Ranks (at 5mA)

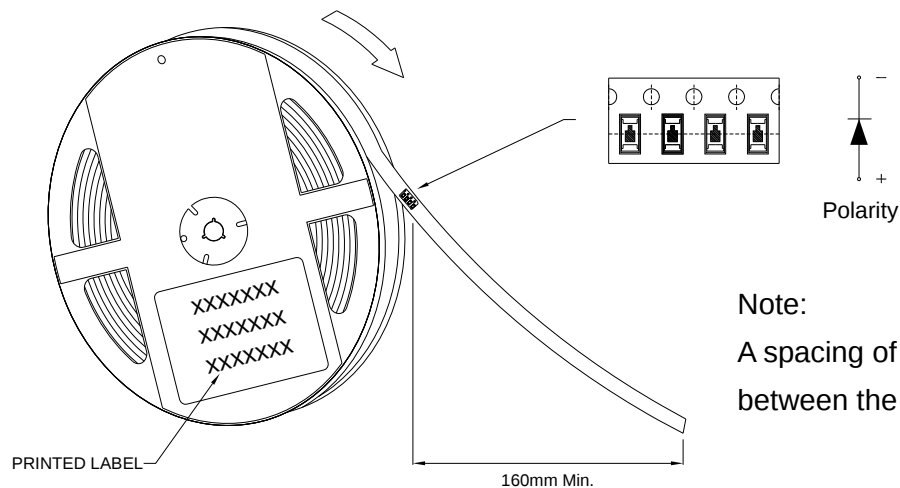
LI(mcd)	14	16
Min.	45	71
Max.	71	112

Reel Dimension:



Note:

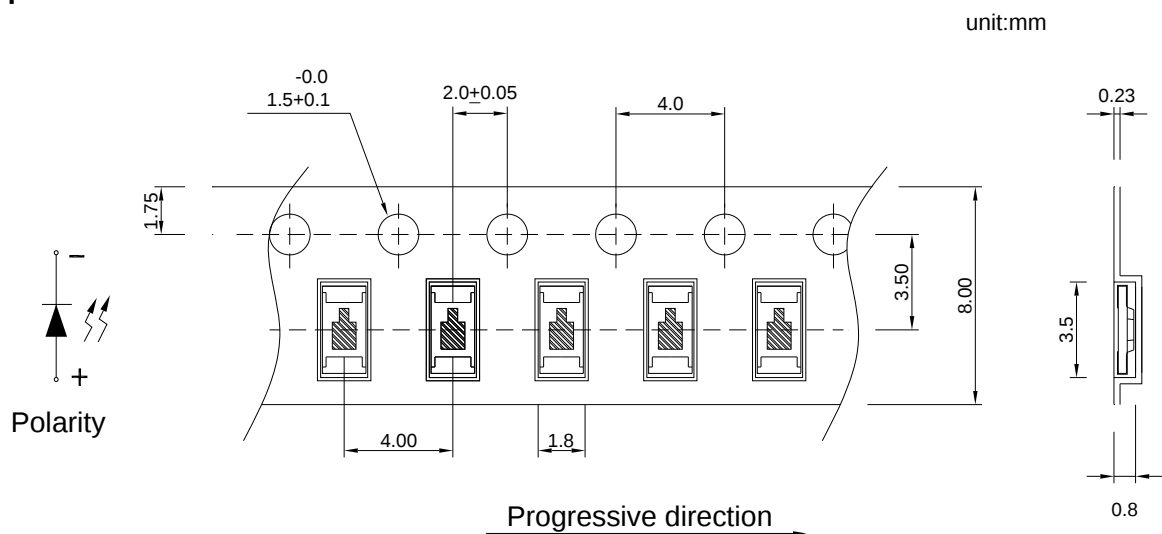
Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)



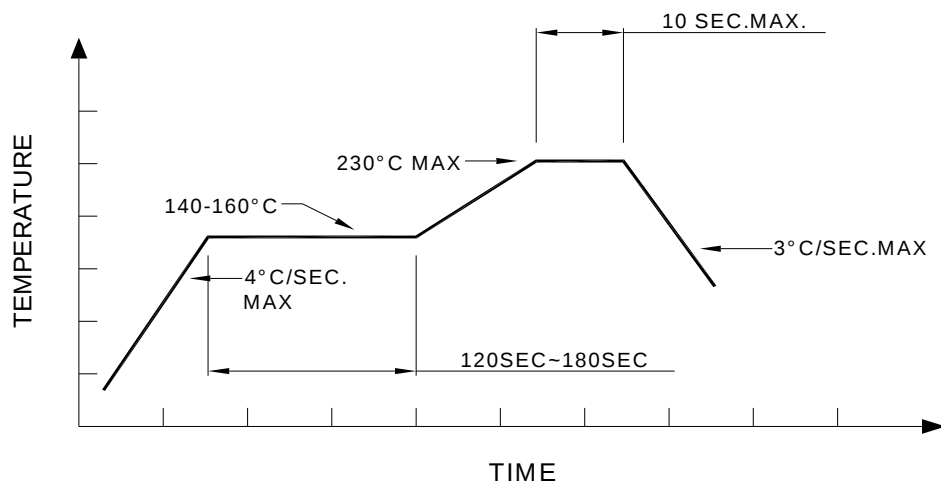
Note:

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

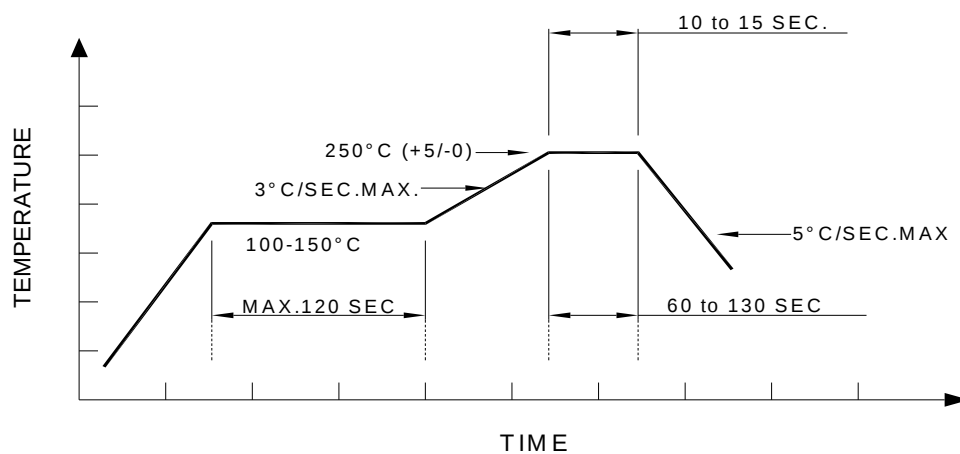
Tape Dimension:



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.