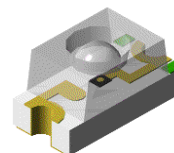


1206 SMD LED 70 degree View Angle

VS 6W78

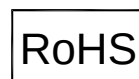
Description

This lens construction of this series is different from other Flat type of SMD LEDs. Within the lens itself, there is an additional lens construction for better focusing of light output. Thus, increase the luminous intensity. The dice used in this series is InGaN material. The advantages of InGaN material are low power consumption and obtaining high luminous intensity. The Wavelengths and Luminous Intensities of this series are grouped under 20mA condition for uniformity.



Applications

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



Electronic Optical Characteristics (at 5mA):

Part Number	Emitted Color	C.C.		Lens Color	Iv(mcd)		View Angle	VF(V)	
		X	Y		Min.	Max.		Min.	Max.
VS 6W78	White	0.29	0.30	Yellow	71	140	70	2.7	3.2

Absolute Maximum Ratings (at Ta=25°C)

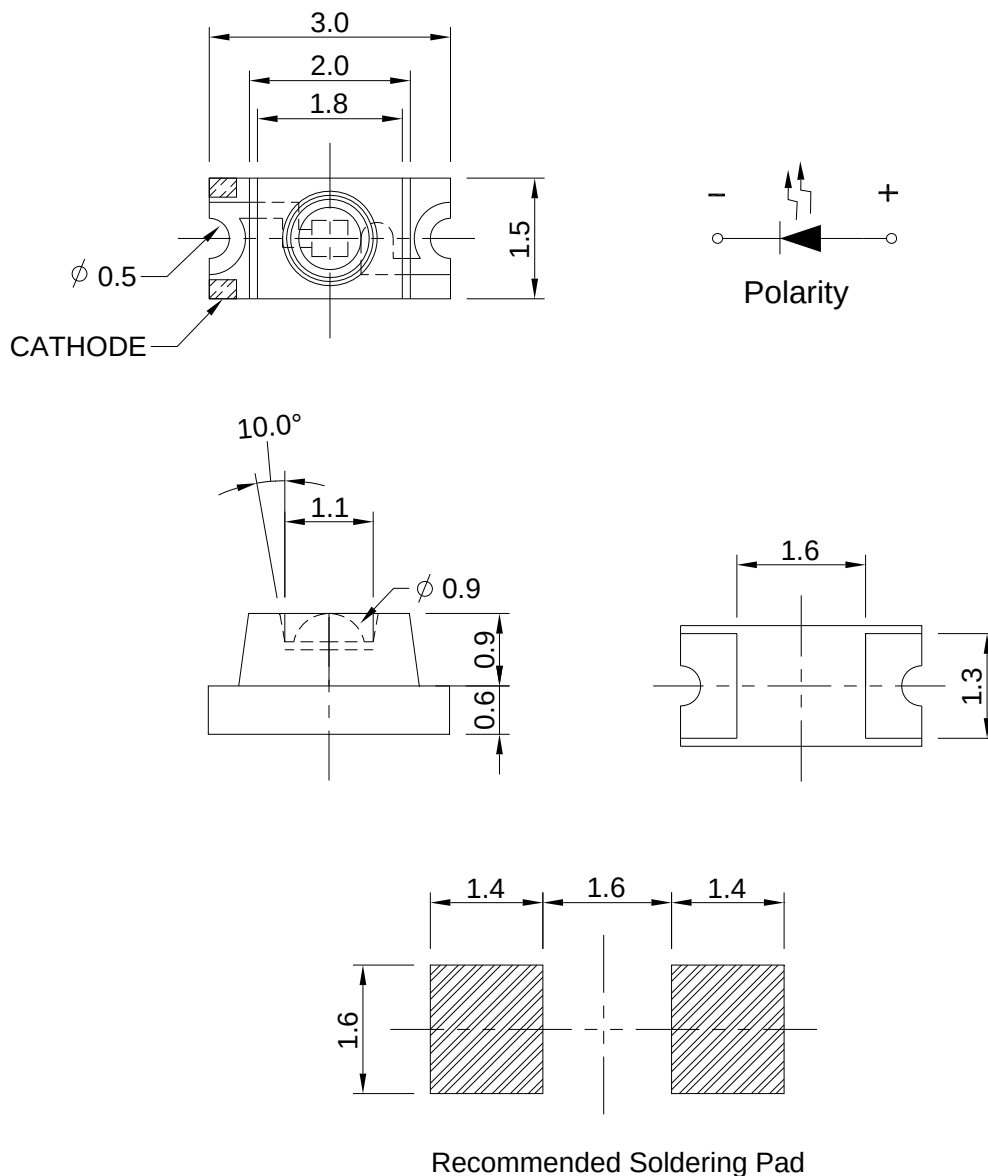
P _D (mW)	I _{FP} (mA)	I _F (mA)	Iron Solder(°C)	I _R (uA)@V _R =5V	T _{opr} (°C)	T _{stg} (°C)
110	100*	25	350 ± 5 for 3 sec.	50	-40~+85	-40~+100

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:

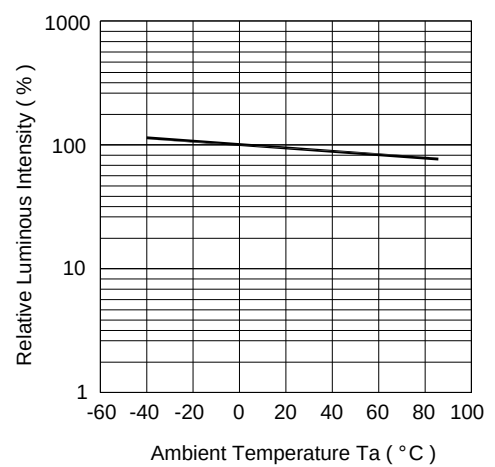
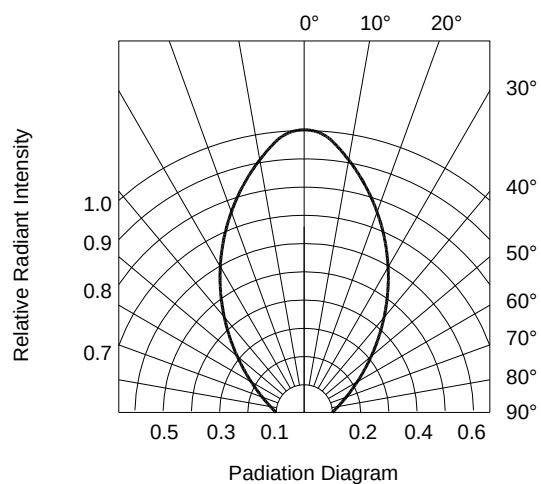
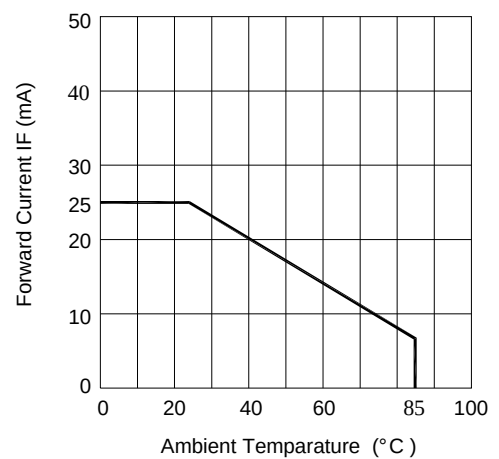
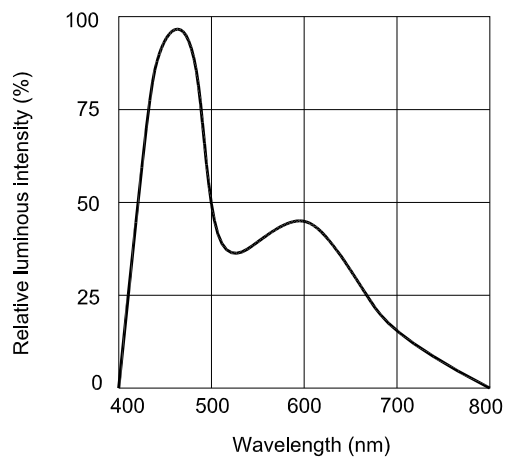
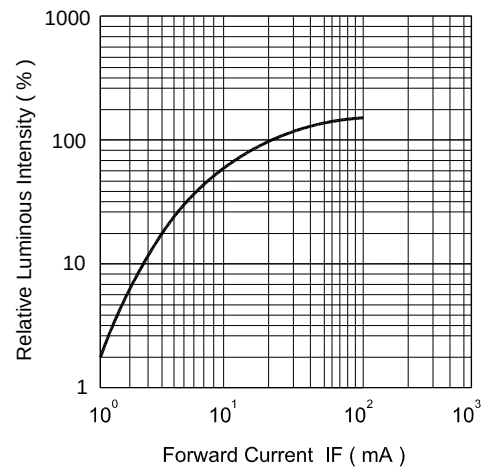
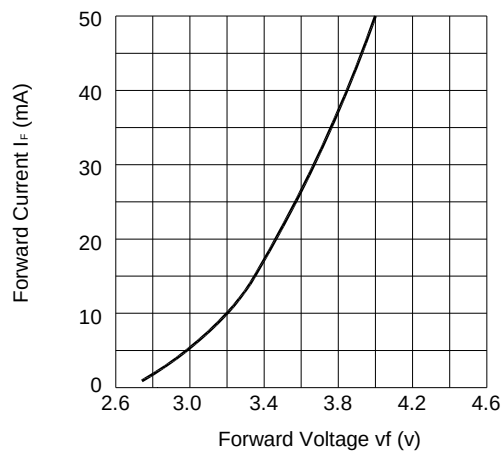
unit:mm



Notes:

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

Optical Characteristics Curves

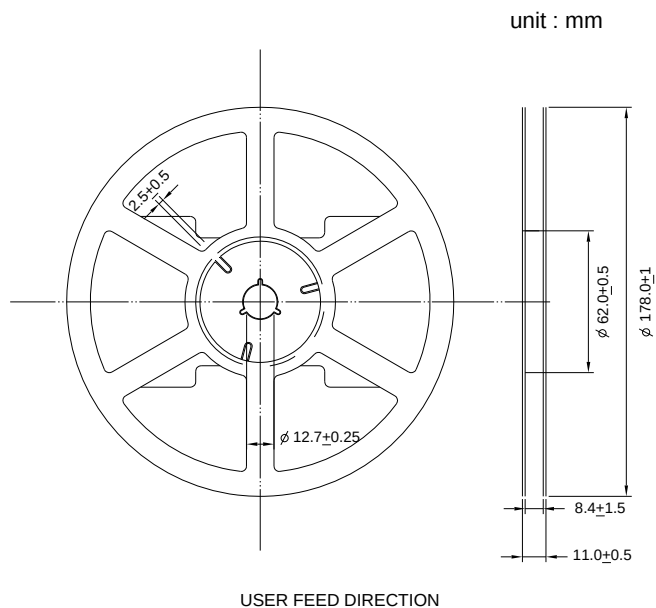


CIE Chromaticity Diagram

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

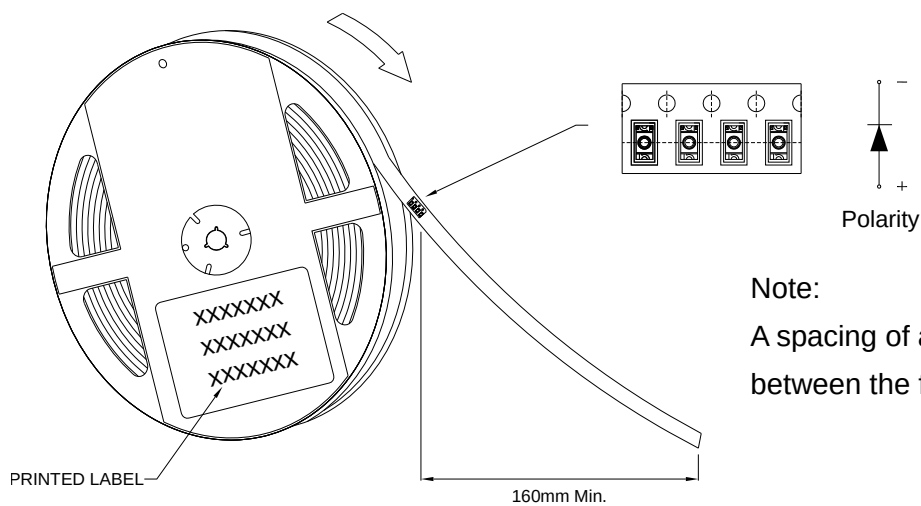
Measurement uncertainty of the color coordinates: ± 0.01

Reel Dimension:



Note:

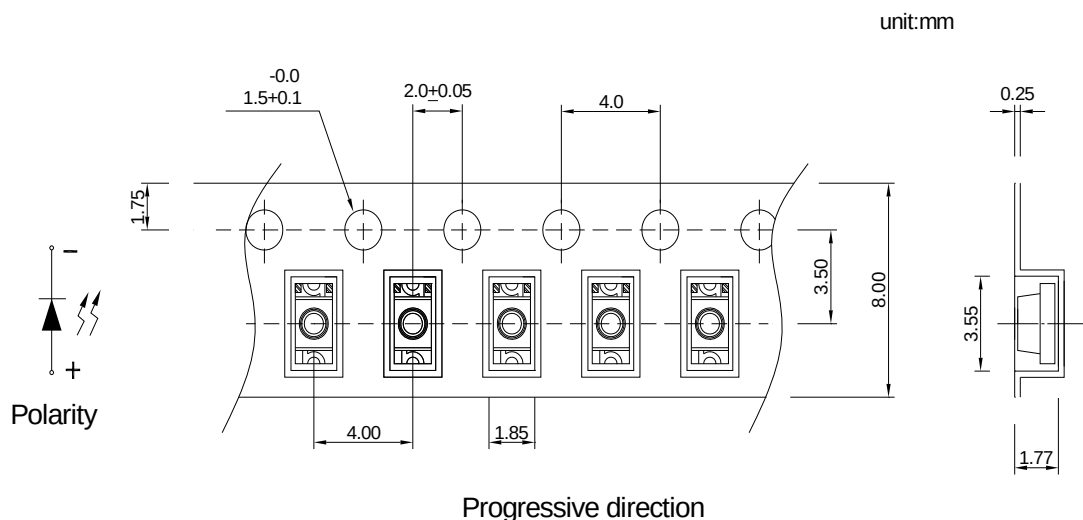
Available in 8mm carrier tape on 178mm diameter reels. (3,000 pieces)

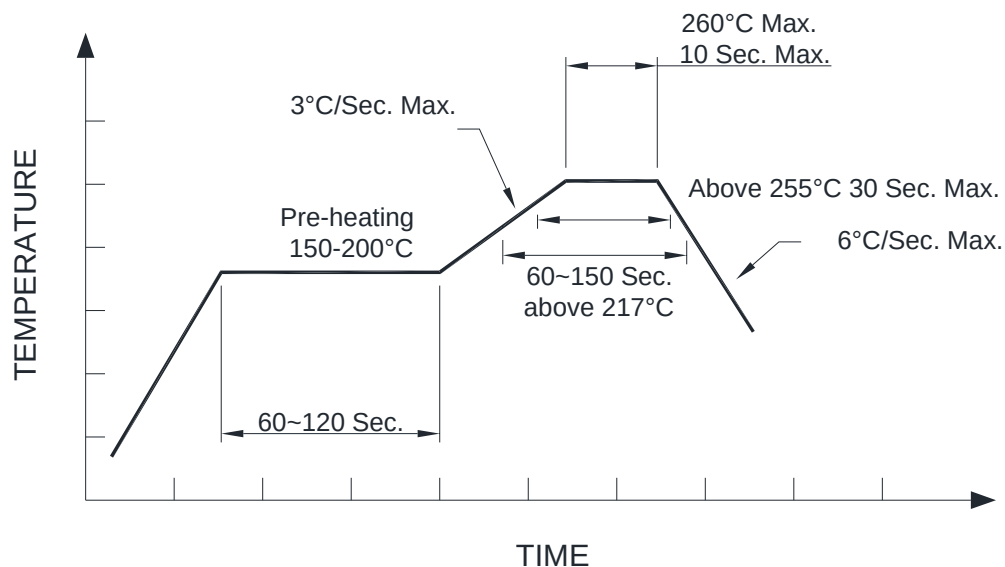


Note:

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.