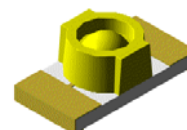


1206 Reverse Package 70 Degree

VS 8W79

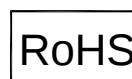
Description

The major breakthrough in VS 8W79 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. The wavelengths and luminous Intensities of this series are grouped under 5mA for uniformity. These LED are suitable for multiple usages in series connection applications.



Application

- Cellular phone display
- Backlight keypads
- Industrial control systems signal indicator
- Automotive features



Electronic Optical Characteristics (at 5mA):

Part Number	Emitted Color	C.C.		Lens Color	Iv(mcd)		View Angle	VF(V)	
		X	Y		Min.	Typ.		Typ.	Max.
VS 8W79	White	0.29	0.30	Yellow Diff.	28	80	70	3.0	3.2

Absolute Maximum Ratings (at Ta=25°C)

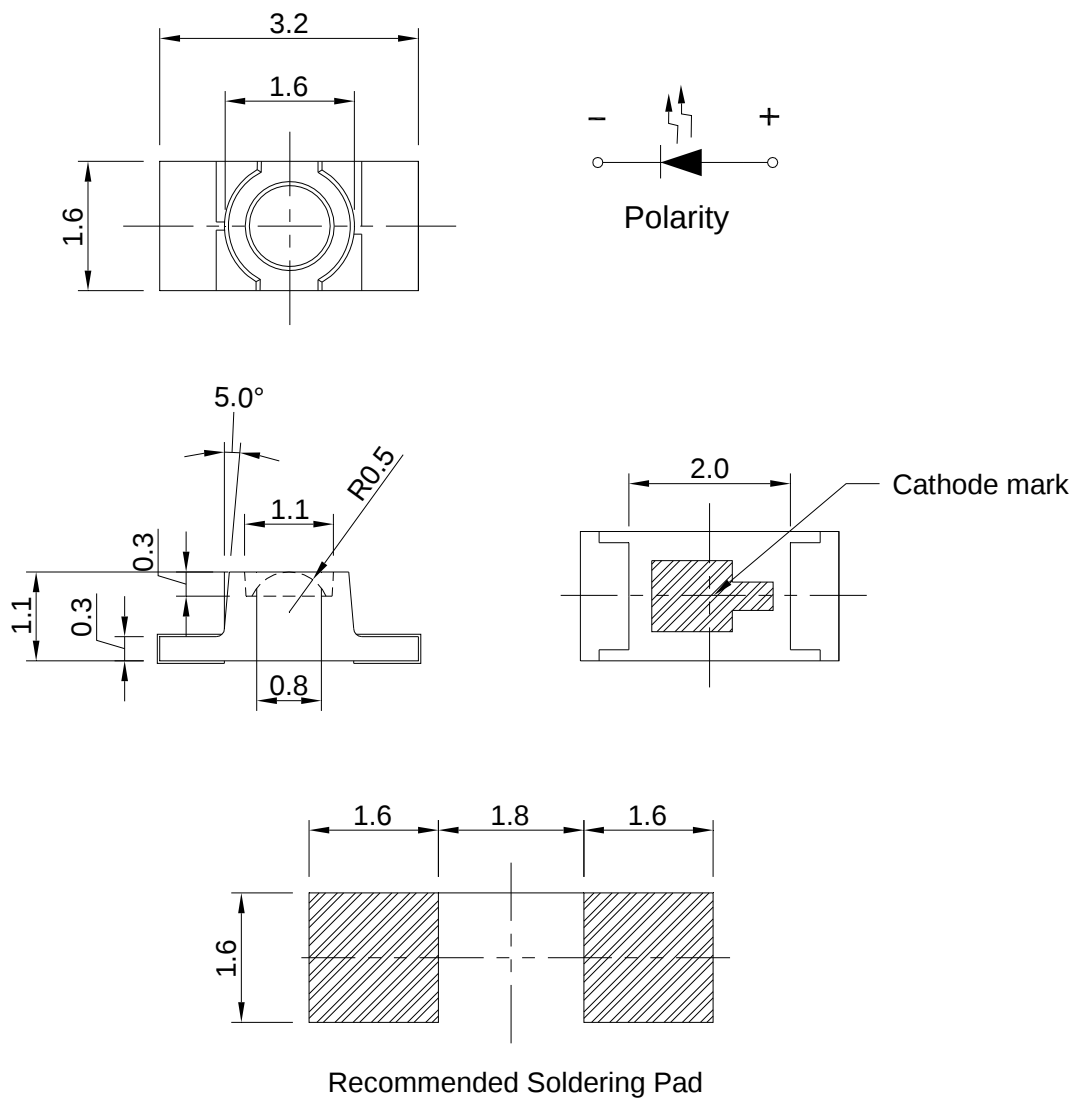
P _D (mW)	I _{FP} (mA)	I _F (mA)	Iron Solder(°C)	I _R (uA)@V _R =5V	Topr(°C)	Tstg(°C)
110	100*	25	350 ± 5 for 3 sec.	50	-40~+85	-40~+100

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:

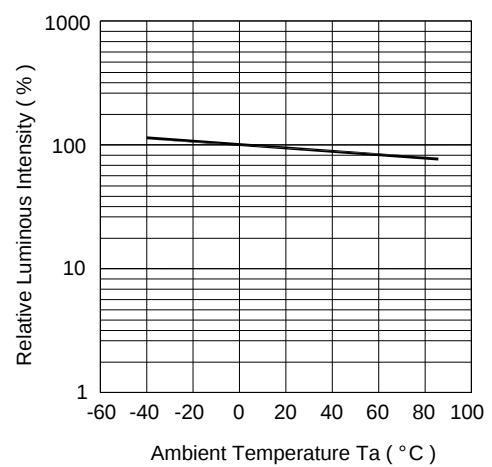
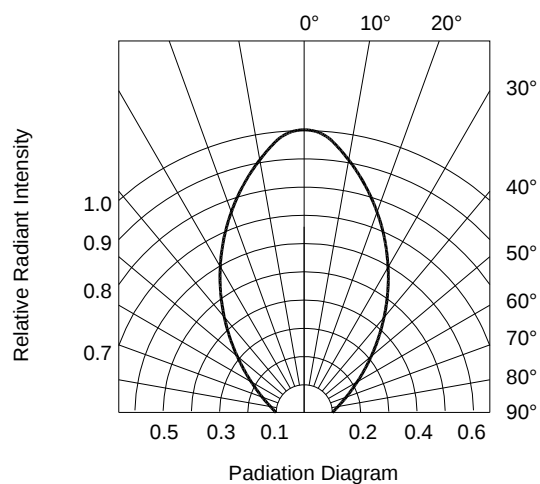
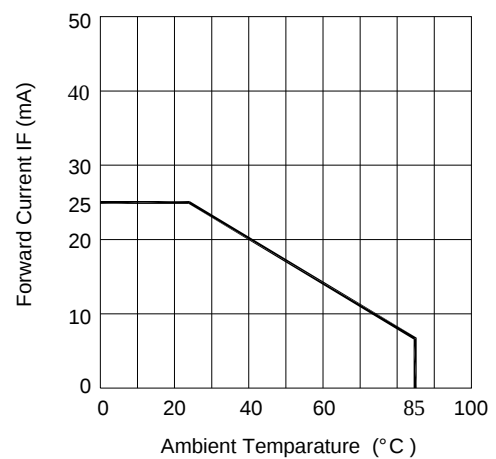
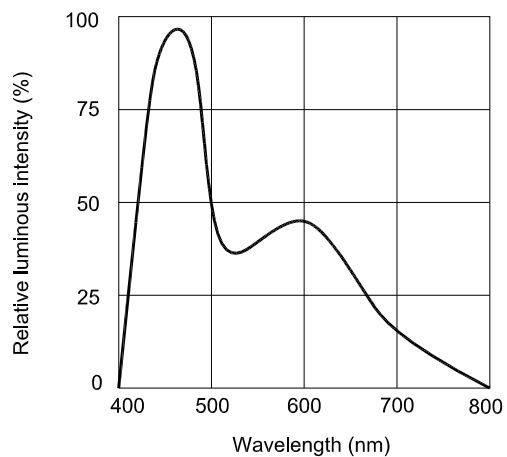
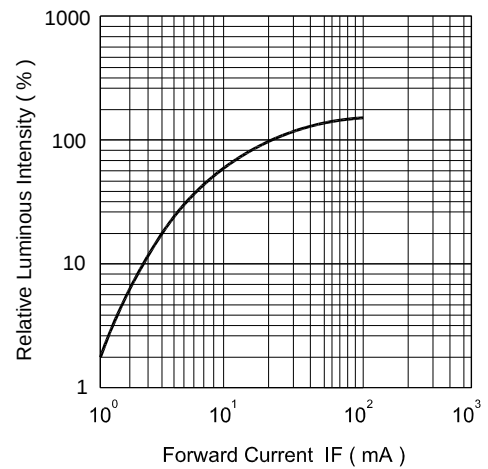
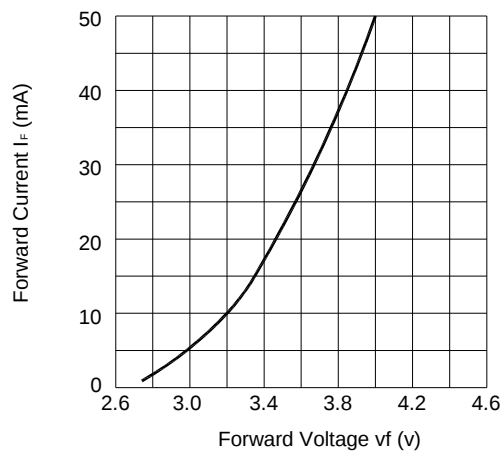
unit:mm



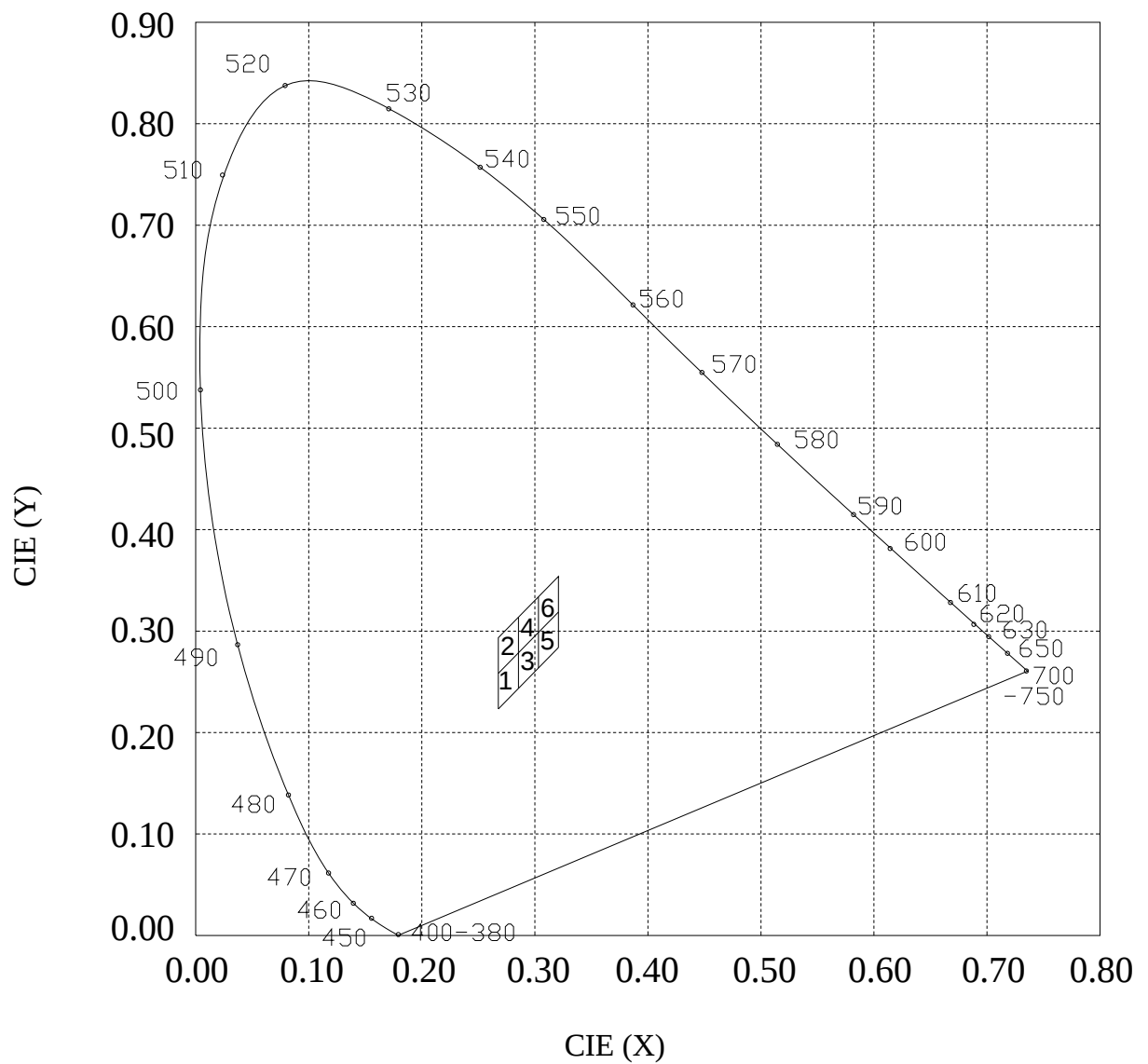
Notes:

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

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

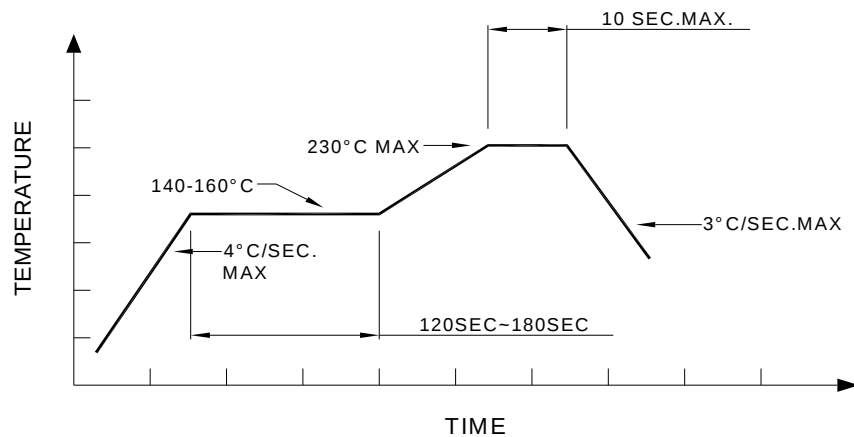
Wavelength rank at 5 mA

Bin Code	6	7	8	--
$V_F(\text{V})$	2.70 ~ 2.85	2.85 ~ 3.00	3.00 ~ 3.15	--

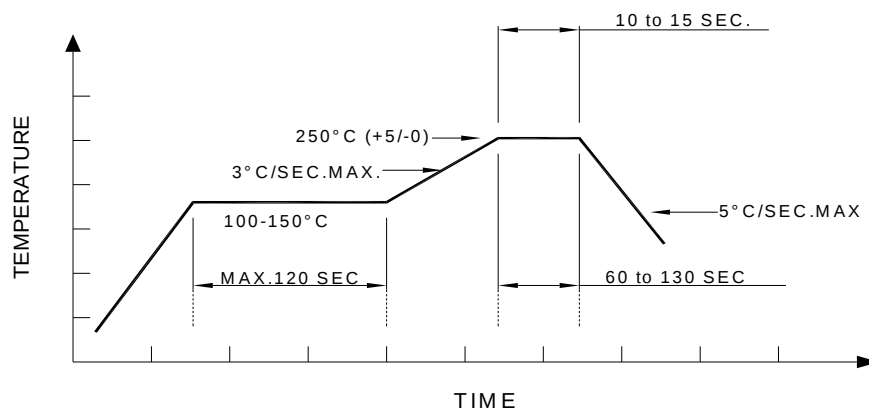
Luminous intensity rank at 5 mA

Bin Code	30	31	32	33	34	35
$I_v(\text{mcd})$	28.0-35.5	35.5-45.0	45.0-56.0	56.0-71.0	71.0-90.0	90.0-112.0

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.