

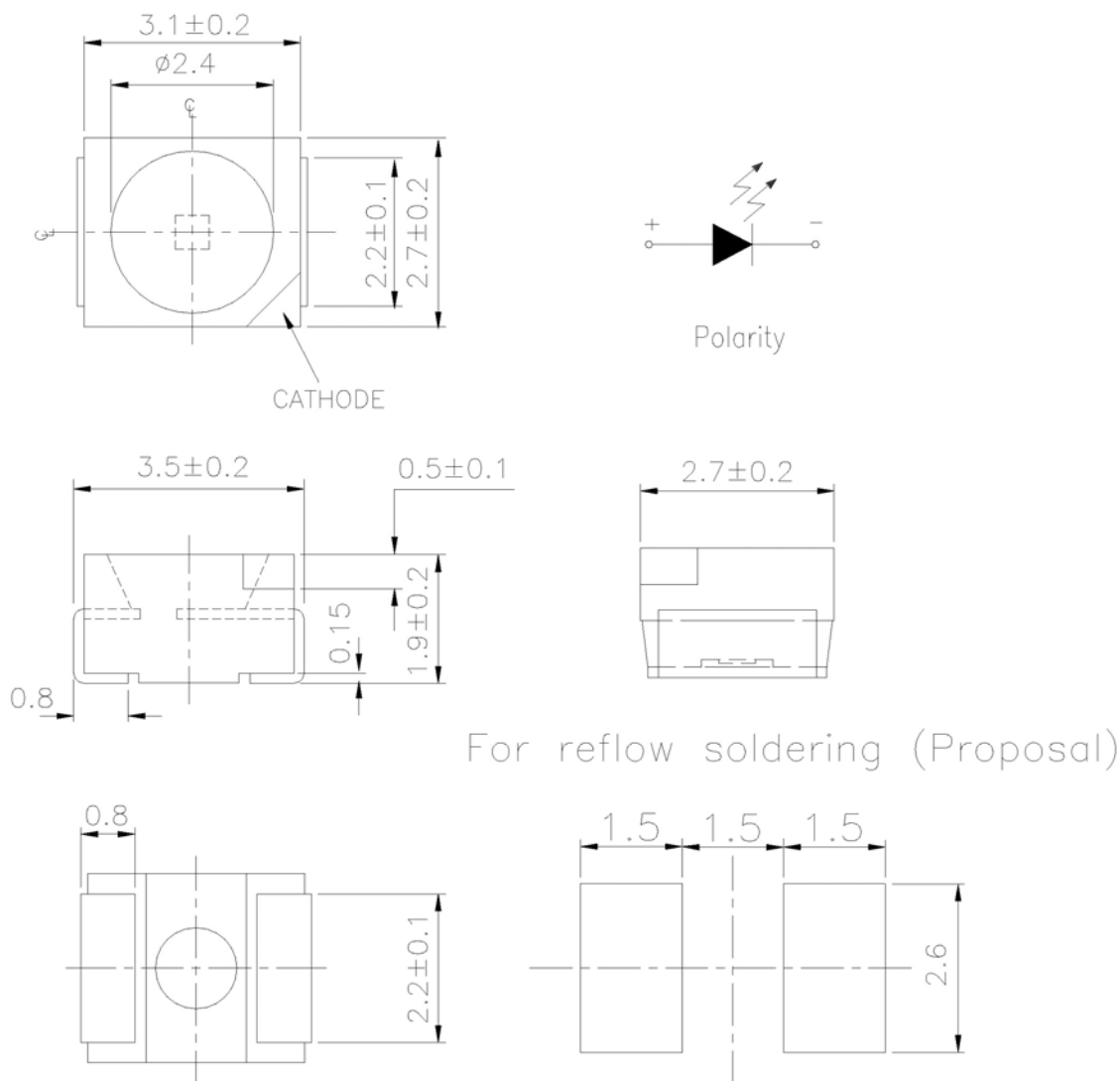
Features

- Fit automatic placement equipment.
- Fit Compatible with vapor-phase reflow, Infrared reflow and wave solder processes.
- White package.
- Pb-free.
- RoHS compliant.

Descriptions

- For higher packing density .
- For minature applications .
- Water clear lens .
- Chip material : AlGaInP .
- Emitting color : Yellow Green .

Package Outline Dimensions



Note: The tolerances unless mentioned is ± 0.1 mm ,Unit = mm

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	50	mA
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +90	°C
Electrostatic Discharge(HBM)	ESD	2000	V
Power Dissipation	P _d	100	mW
Peak Forward Current (Duty 1/10 @1KHz)	I _{FP}	80	mA
Soldering Temperature	T _{sol}	Reflow Soldering : 260 °C for 10 sec. Hand Soldering : 350 °C for 3 sec.	

Electro-Optical Characteristics (Ta=25°C)

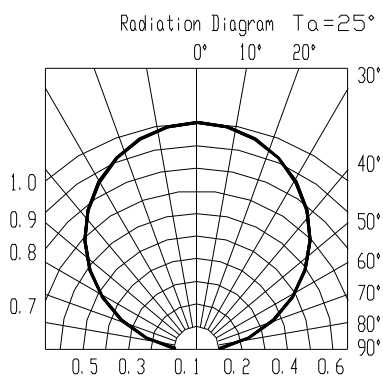
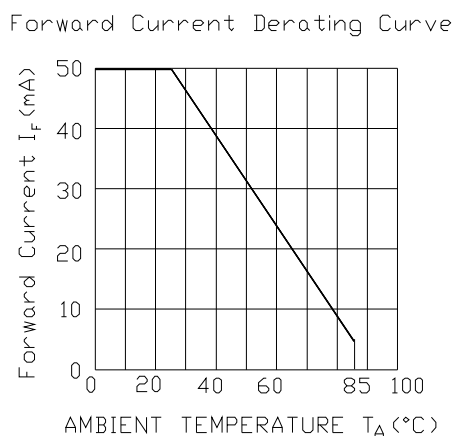
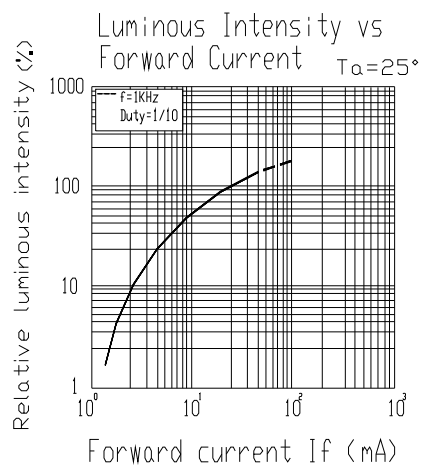
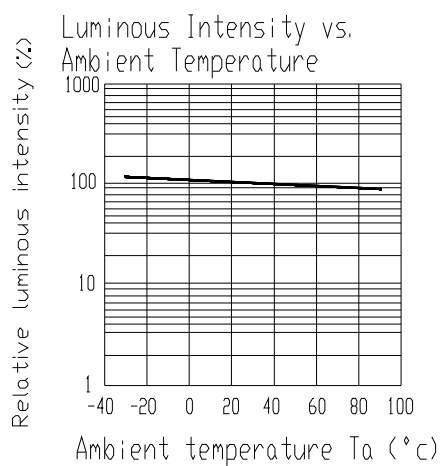
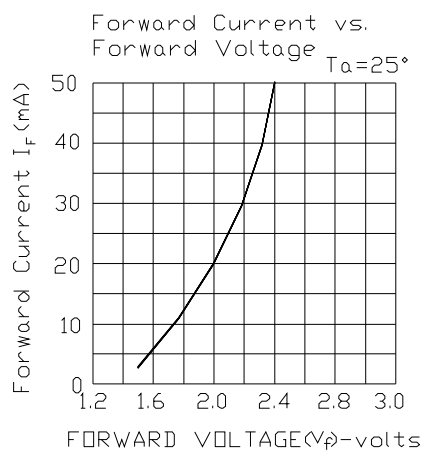
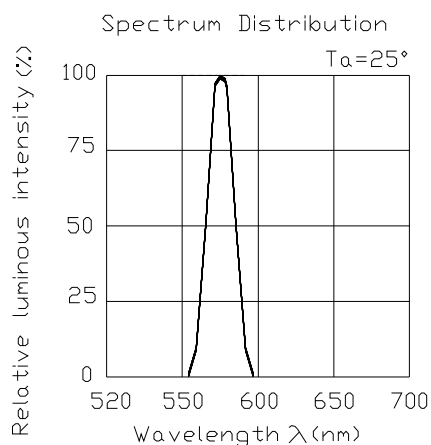
Parameter	Symbol	*Chip Rank	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _v	E2	25	37	-----	mcd	I _F =20mA
		E3	32	51			
		E4	40	70			
		E5	50	96			
Viewing Angle	2 θ 1/2	-----	-----	120	-----	deg	I _F =20mA
Peak Wavelength	λ _p	-----	-----	575	-----	nm	I _F =20mA
Dominant Wavelength	λ _d	-----	-----	573	-----	nm	I _F =20mA
Spectrum Radiation Bandwidth	△ λ	-----	-----	20	-----	nm	I _F =20mA
Forward Voltage	V _F	-----	-----	2.0	2.4	V	I _F =20mA
Reverse Current	I _R	-----	-----	-----	10	μ A	V _R =5V

Specific binning requirements- please contact our home office

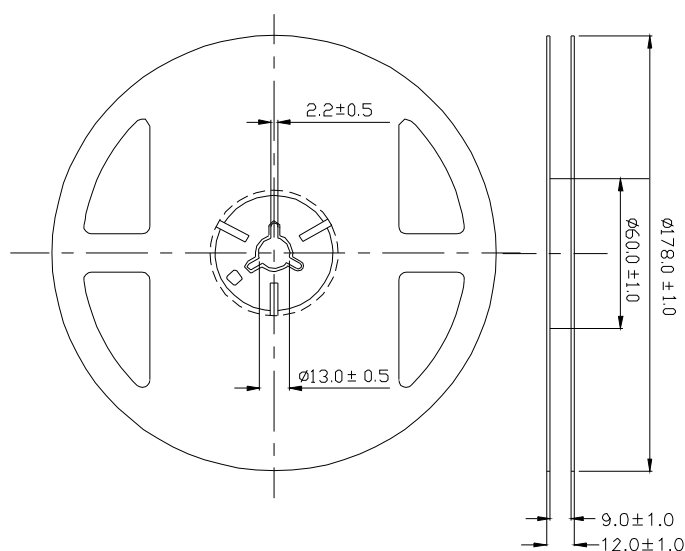
Notes:

- 1.Tolerance of Luminous Intensity ±10%
- 2.Tolerance of Dominant Wavelength ± 1nm
- 3.Tolerance of Forward Voltage ±0.1V

Typical Electro-Optical Characteristics Curves

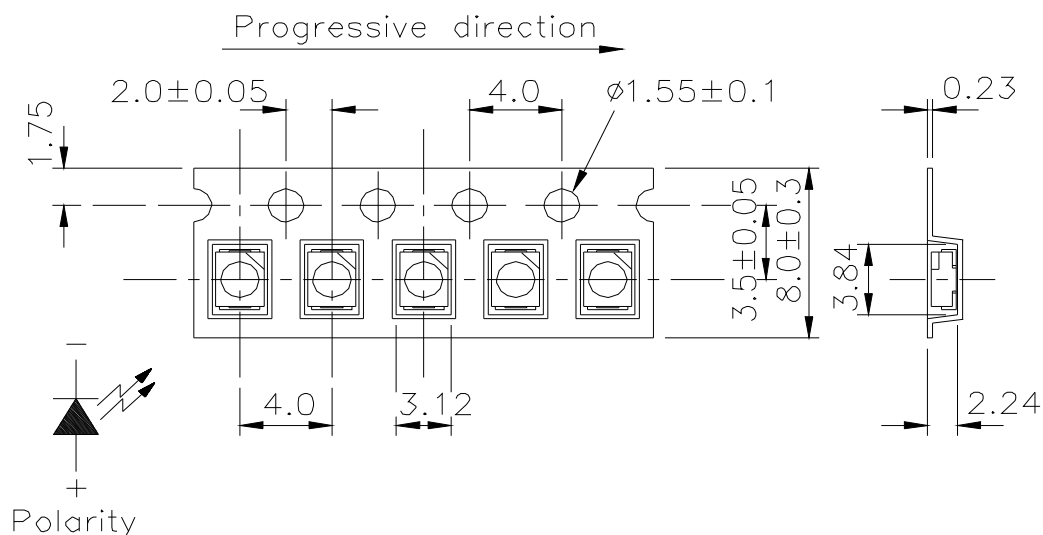


Reel Dimensions



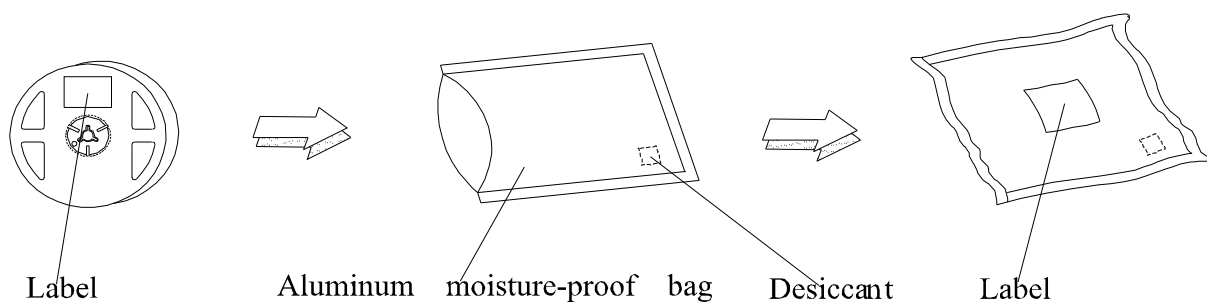
Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$, Unit = mm

Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel.



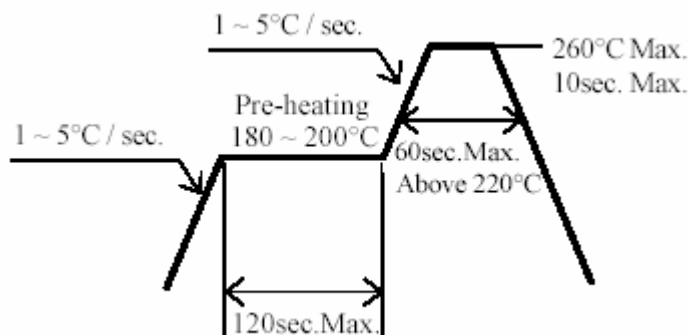
Note: The tolerances unless mentioned is ± 0.1 mm Unit = mm

Moisture Resistant Packaging



Soldering Condition

1. Pb-free solder temperature profile



2. Reflow soldering should not be done more than two times.

3 When soldering, do not put stress on the LEDs during heating.

4 After soldering, do not warp the circuit board.

Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 350°C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.

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VAOL-S2GT4