VCC | OPTOELECTRONICS
lighting:theway

0603 SMD TYPE LED

VAOL-S6YP4

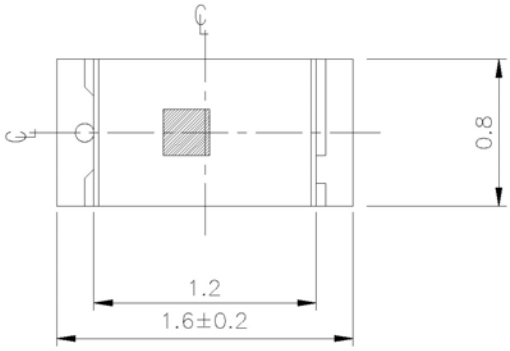
Features

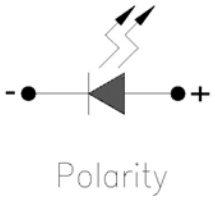
- Fit automatic placement equipment.
- Fit Compatible with infrared and vapor phase reflow solder process.
- Pb-free.
- RoHS compliant.

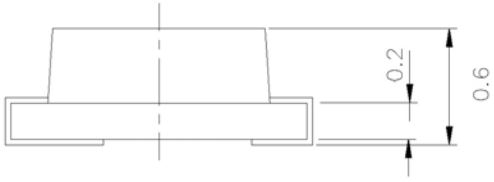
Descriptions

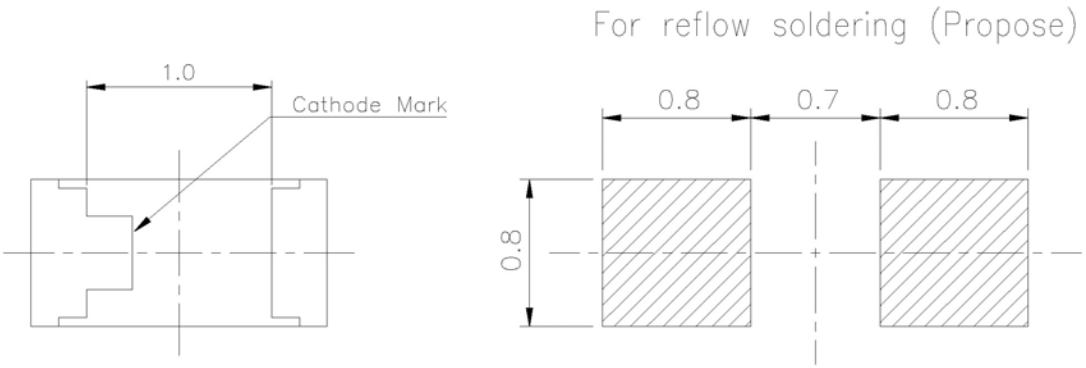
- For higher packing density .
- For minature applications .
- Water clear lens .
- Chip material : AlGaInP .
- Emitting color : Yellow.

Package Outline Dimensions









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

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RoHS
ISO 9001 Registered

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	25	mA
Operating Temperature	Topr	-40 ~ +85	℃
Storage Temperature	Tstg	-40 ~ +90	℃
Soldering Temperature	Tsol	260 (for 5 second)	℃
Electrostatic Discharge (HBM)	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current (Duty 1/10 @1KHz)	I_{FP}	160	mA
Soldering Temperature	Tsol	Reflow Soldering : 260 ℃ for 10 sec. Hand Soldering : 350 ℃ for 3 sec.	

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	16	---	50	mcd	I_F=10mA
Viewing Angle	2θ 1/2	---	120	---	deg	
Peak Wavelength	λp	---	591	---	nm	
Dominant Wavelength	λd	587	---	594	nm	
Spectrum Radiation Bandwidth	△λ	---	15	---	nm	
Forward Voltage	V_F	---	1.9	2.3	V	
Reverse Current	I_R	---	---	10	μA	V_R=5V

Bin Range Of Luminous Intensity & Dom. Wavelength

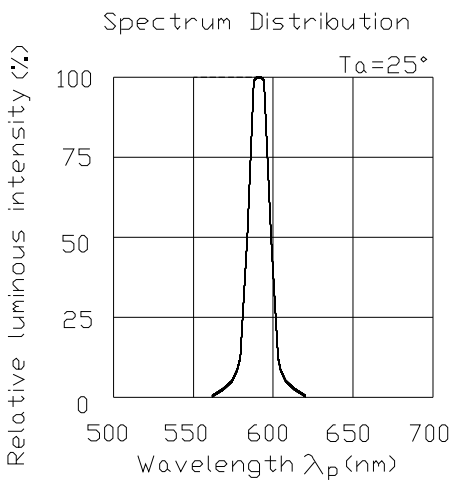
Bin code	Min	Max	Unit	Condition
M	16.0	32.0	mcd	IF=10mA
N	25.0	50.0		
4	587	590	nm	
5	589	592		
6	591	594		

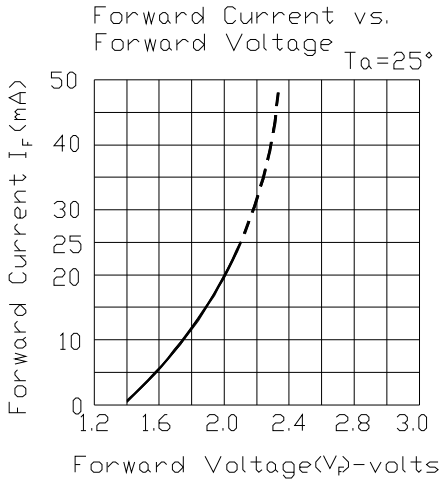
Specific binning requirements- please contact our home office

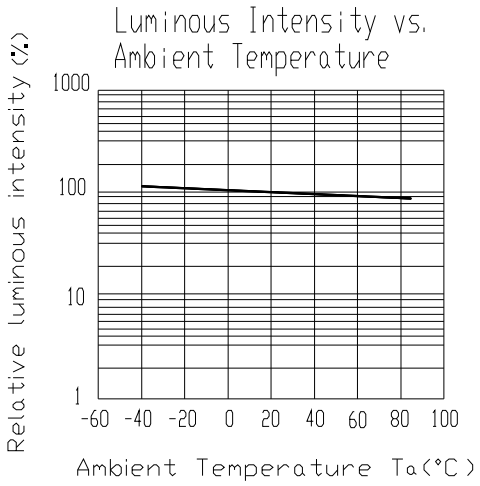
Notes:

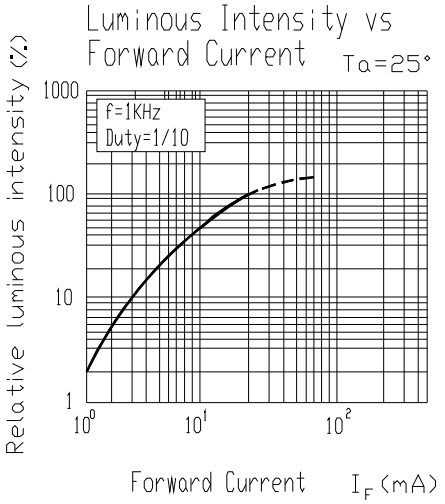
Tolerance of Dominant Wavelength ±1nm

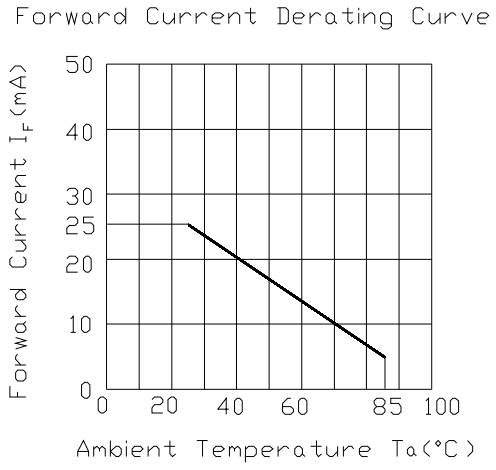
Typical Electro-Optical Characteristics Curves

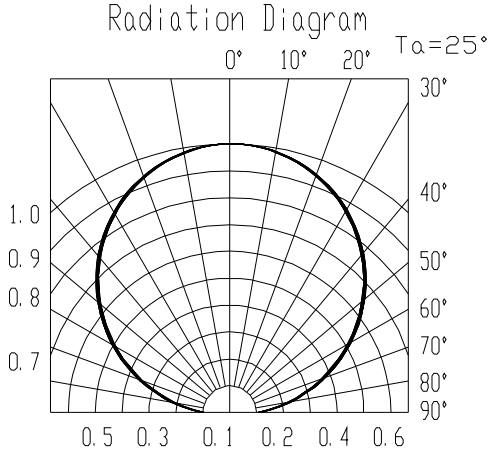




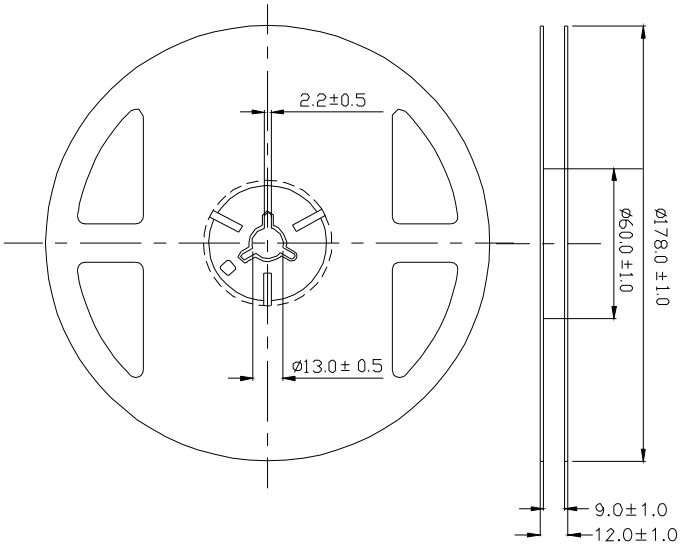








Reel Dimensions



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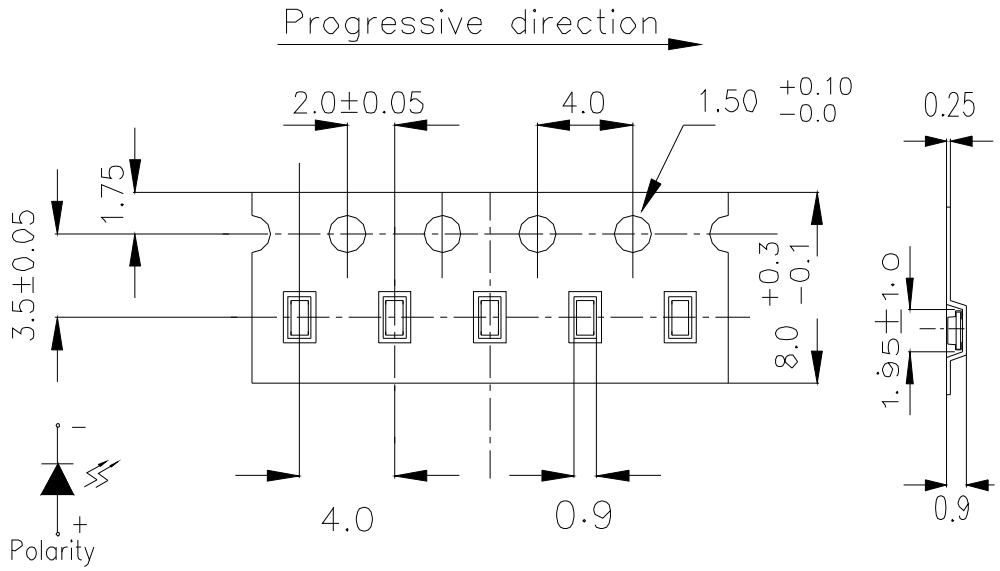
Carrier Tape Dimensions: Loaded quantity 3000 PCS per reel



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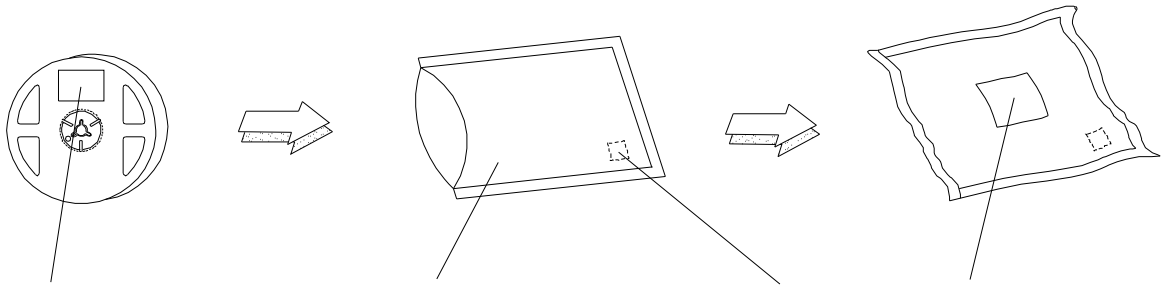
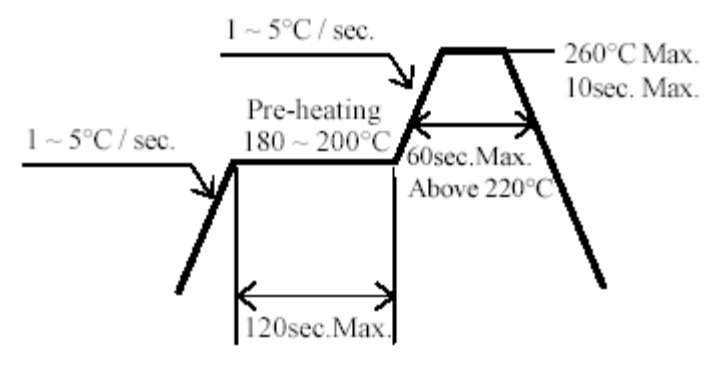
Moisture Resistant Packaging



Label Aluminum moisture-proof bag Desiccant Label

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℃ 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.