0603 SMD TYPE LED

G lighting:theway

VAOL-S6RP4

Features

- Fit automatic placement equipment.
- Fit Compatible with infrared and vapor phase reflow solder process.

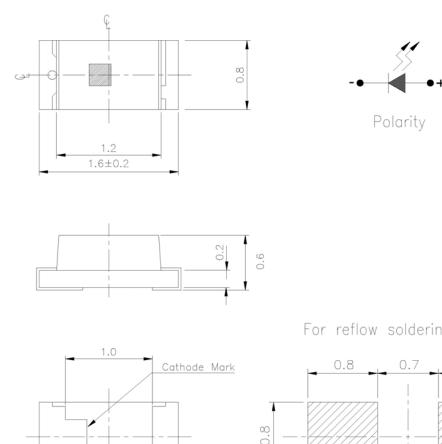
OPTOELECTRONICS

- Pb-free.
- RoHS compliant.

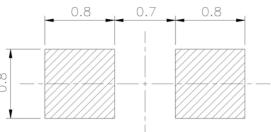
Descriptions

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

Package Outline Dimensions



For reflow soldering (Propose)



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

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OPTOELECTRONICS



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	$-40 \sim +90$	°C
Soldering Temperature	Tsol	260 (for 5 second)	°C
Electrostatic Discharge (HBM)	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current (Duty 1/10 @1KHz)	Ifp	60	mA
		Reflow Soldering : 26	$0 ^{\circ}C \text{for 10 sec.}$
Soldering Temperature	Tsol	Hand Soldering : 350	°C for 3 sec.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	Iv	16		50	mcd	
Viewing Angle	2 <i>θ</i> 1/2		120		deg	
Peak Wavelength	λp		650		nm	IF=10mA
Dominant Wavelength	λd	633		643	nm	IF-TOIMA
Spectrum Radiation Bandwidth	$ riangle \lambda$		20		nm	
Forward Voltage	VF		2.0	2.4	V	
Reverse Current	Ir			10	μA	V _R =5V

Bin Range Of Luminous Intensity & Dom. Wavelength

Bin code	Min	Max	Unit	Condition
Μ	16.0	32.0	mcd	IF=10mA
Ν	25.0	50.0	incu	
1	633	638	222	
2	638	643	nm	

Notes:

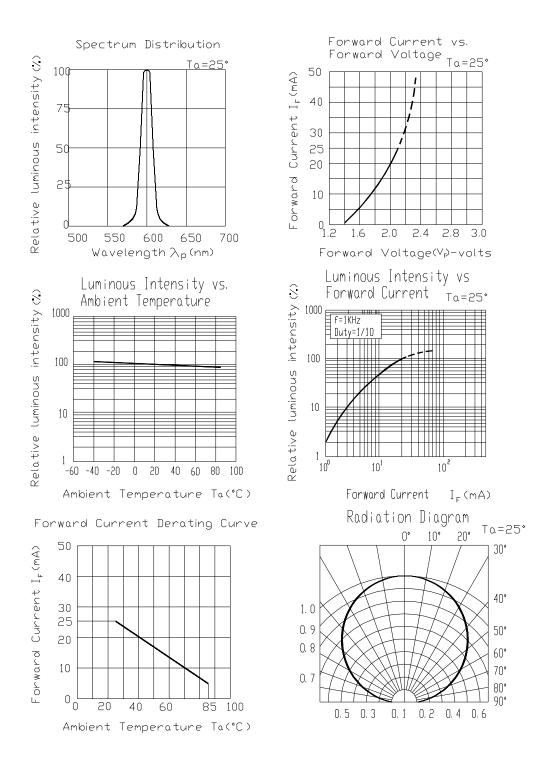
Tolerance of Dominant Wavelength ±1nm

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Typical Electro-Optical Characteristics Curves



RoHS

ISO 9001

Registered

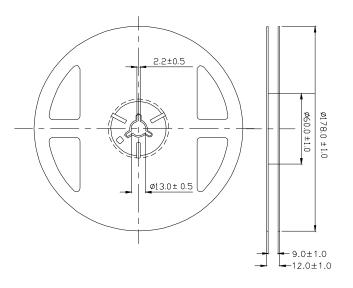
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Reel Dimensions



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

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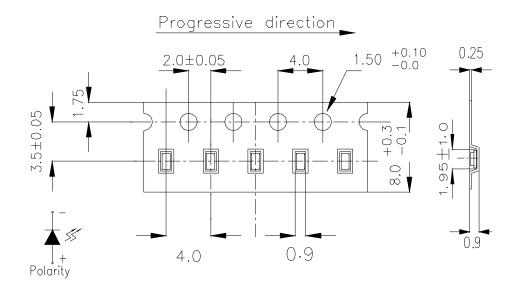
👱 RoHS

ISO 9001

Registered



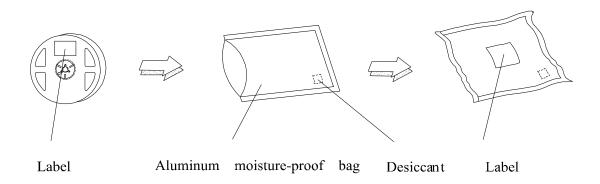




Carrier Tape Dimensions: Loaded quantity 3000 PCS per reel

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

Moisture Resistant Packaging





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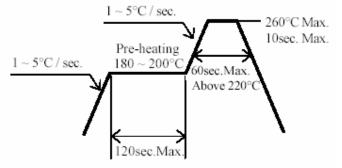
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Soldering Condition

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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