0603 SMD TYPE LED

G lighting:theway

VAOL-S6SB4

Features

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

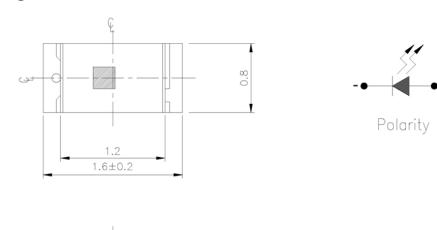
OPTOELECTRONICS

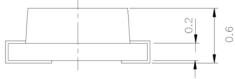
- Pb-free.
- RoHS compliant.

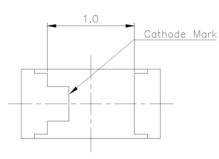
Descriptions

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

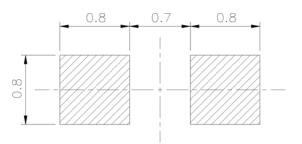
Package Outline Dimensions







For reflow soldering (Propose)



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

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Parameter	Symbol	Rating	Unit
Reverse Voltage	Vr	5	V
Forward Current	If	25	mA
Operating Temperature	Topr	$-40 \sim +85$	°C
Storage Temperature	Tstg	$-40 \sim +90$	°C
Soldering Temperature	Tsol	260 (for 5 second)	°C
Electrostatic Discharge (HBM)	ESD	150	V
Power Dissipation	Pd	110	mW
Peak Forward Current (Duty 1/10 @1KHz)	Ifp	100	mA
		Reflow Soldering : 26	$0 ^{\circ}\mathrm{C} \mathrm{for} 5 \mathrm{sec.}$
Soldering Temperature	Tsol	Hand Soldering : 350	°C for 3 sec.

Absolute Maximum Ratings (Ta=25°C)

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	Iv	11.5		28.5	mcd	IF=5mA
Viewing Angle	2 0 1/2		120		deg	IF=20mA
Peak Wavelength	λp		468		nm	IF=20mA
Dominant Wavelength	λd	470		475	nm	IF=5mA
Spectrum Radiation Bandwidth	$ riangle \lambda$		35		nm	IF=20mA
Forward Voltage	VF	2.5		3.0	V	IF=2mA
Reverse Current	Ir			50	μA	V _R =5V

Notes:

- 1.Tolerance of Luminous Intensity ±10%
- 2.Tolerance of Dominant Wavelength \pm 1nm
- 3.Tolerance of Forward Voltage ±0.05V

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Bin Range Of Luminous Intensity

Bin code	Min	Max	Unit	Condition	
1-1	11.50	14.50		IF=5mA	
1-2	14.50	18.00	mcd		
2-1	18.00	22.50	med		
2-2	22.50	28.50			

Bin Range Of Dom. Wavelength

Bin code	Min	Max	Unit	Condition
1	470	475	nm	IF=5mA

Bin Range Of Forward Voltage

Bin code	Min	Max	Unit	Condition
1-1	2.50	2.55		IF=2mA
1-2	2.55	2.60		
2-1	2.60	2.65		
2-2	2.65	2.70		
3-1	2.70	2.75	V	
3-2	2.75	2.80	v	
4-1	2.80	2.85		
4-2	2.85	2.90		
5-1	2.90	2.95		
5-2	2.95	3.00		

Specific binning requirements- please contact our home office

Notes:

- 1.Tolerance of Luminous Intensity ±10%
- 2.Tolerance of Dominant Wavelength \pm 1nm
- 3.Tolerance of Forward Voltage ±0.05V

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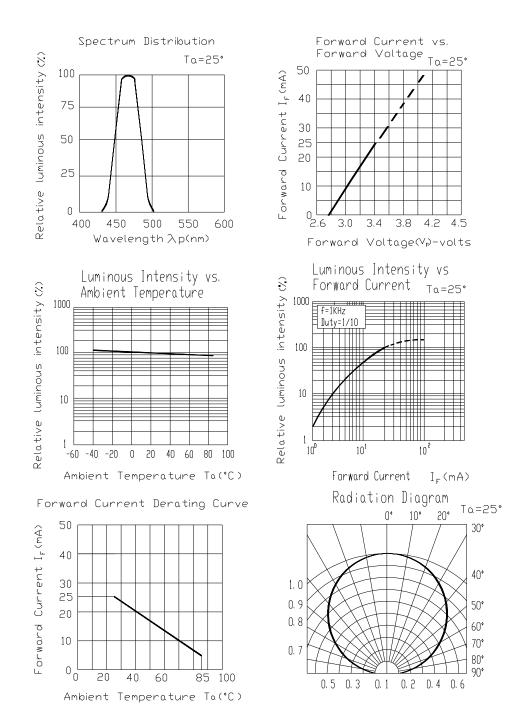




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Typical Electro-Optical Characteristics Curves



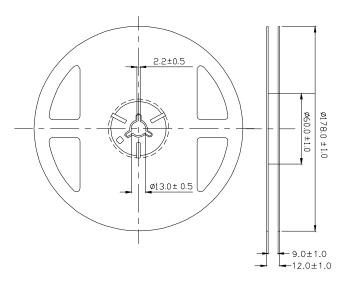


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Reel Dimensions



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

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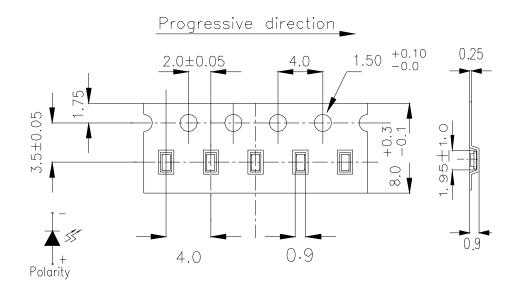
👱 RoHS

ISO 9001

Registered



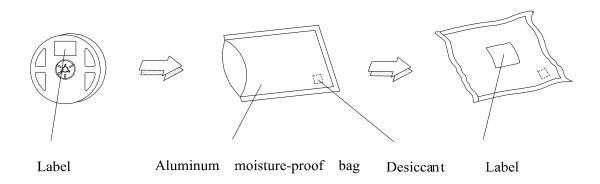




Carrier Tape Dimensions: Loaded quantity 3000 PCS per reel

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

Moisture Resistant Packaging





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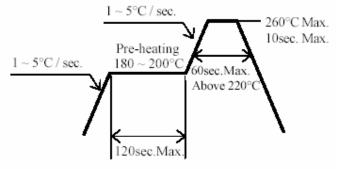


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Soldering Condition

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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