0603 SMD TYPE LED



VAOL-S6WR4

Features

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

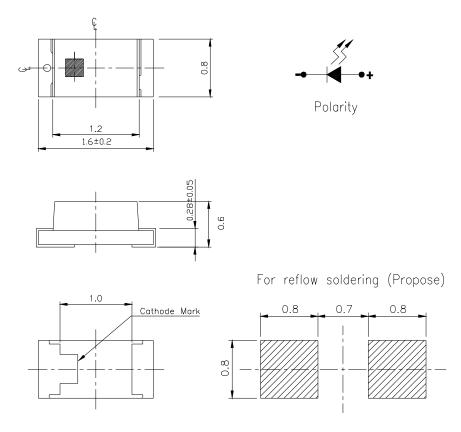
OPTOELECTRONICS

- Pb-free.
- RoHS compliant.

Descriptions

- For higher packing density .
- For minature applications .
- Yellow Diffused Lens
- Chip material : InGaN.
- Emitting color : White.

Package Outline Dimensions



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

190 bosstick blvd, ste 101 san marcos, ca 92069 phone 760.560.1300 fax 760.560.1301



Downloaded from Elcodis.com electronic components distributor



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 10 sec)	°C
Electrostatic Discharge (HBM)	ESD	150	V
Power Dissipation	Pd	110	mW
Peak Forward Current (Duty 1/10 @1KHz)	Ifp	100	mA
		Reflow Soldering : 260 °C for 10 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	45.0		90.0	mcd	
Viewing Angle	2 0 1/2		130		deg	IF=5mA
Forward Voltage	VF	2.70		3.10	V	
Reverse Current	Ir			50	μA	V _R =5V

Notes:

- 1.Tolerance of Luminous Intensity ±10%
- 2.Tolerance of Forward Voltage ±0.05V

Bin Range Of Luminous Intensity

Bin code	Min	Max	Unit	Condition
P1	45.0	57.0		
P2	57.0	72.0	mcd	IF=5mA
Q1	72.0	90.0		

190 bosstick blvd, ste 101 san marcos, ca 92069 **phone** 760.560.1300 **fax** 760.560.1301





OPTOELECTRONICS



lighting:theway

Bin Range Of Forward Voltage

Group	Bin	Min	Max	Unit	Condition
B5	29	2.70	2.80		IF=5mA
	30	2.80	2.90	V	
	31	2.90	3.00	v	
	32	3.00	3.10		

Chromaticity Coordinates Specifications for Bin Grading

<u>nromaticity Coordinates Specifications for Bin Grading</u>							
Group	Bin Code	CIE -x	CIE-y	Condition			
	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				
A		0.314	0.282	In Such			
A	4	0.294	0.286	IF=5mA			
		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				

Notes:

1.The C.I.E. 1931 chromaticity diagram (Tolerance ±0.01).

2. The products are sensitive to static electricity and care must be fully taken when handling products.

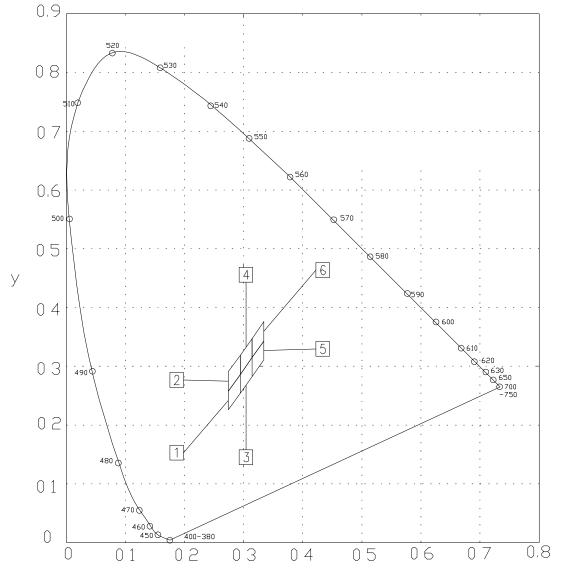
190 bosstick blvd, ste 101 san marcos, ca 92069 phone 760.560.1300 fax 760.560.1301





OPTOELECTRONICS





Specific binning requirements- please contact our home office



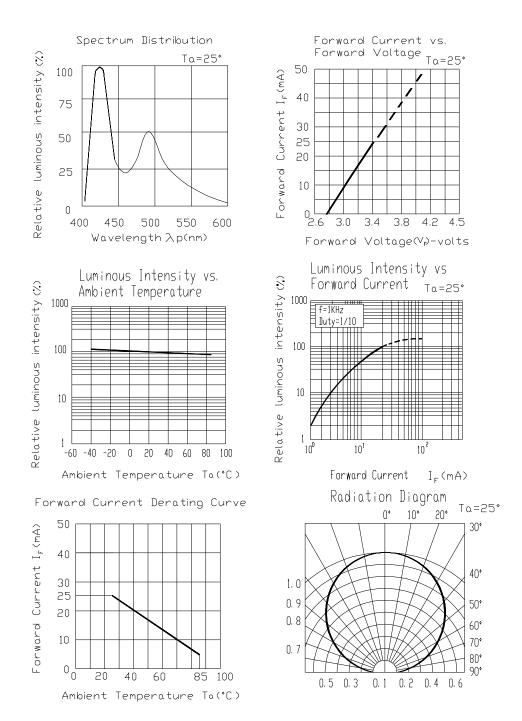


190 bosstick blvd, ste 101 san marcos, ca 92069 phone 760.560.1300 fax 760.560.1301

Downloaded from Elcodis.com electronic components distributor

OPTOELECTRONICS





Typical Electro-Optical Characteristics Curves



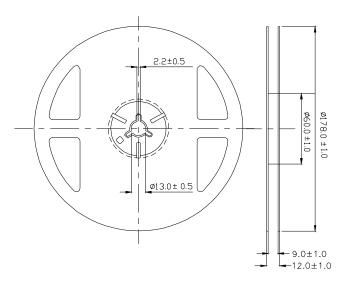


190 bosstick blvd, ste 101 san marcos, ca 92069 phone 760.560.1300 fax 760.560.1301





Reel Dimensions



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

190 bosstick blvd, ste 101 san marcos, ca 92069 phone 760.560.1300 fax 760.560.1301

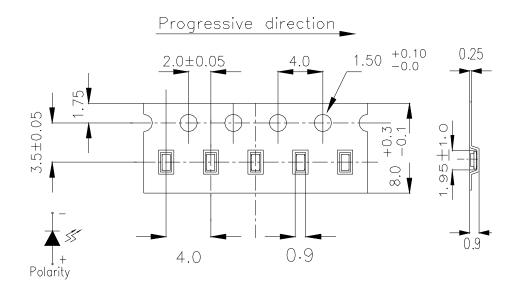
👱 RoHS

ISO 9001

Registered



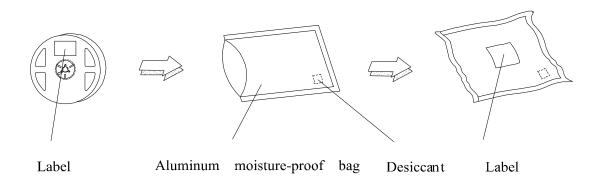




Carrier Tape Dimensions: Loaded quantity 3000 PCS per reel

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

Moisture Resistant Packaging





190 bosstick blvd, ste 101 san marcos, ca 92069

phone 760.560.1300

fax 760.560.1301

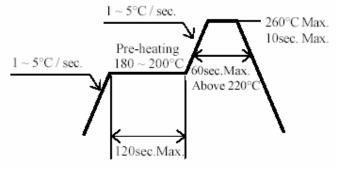


aded from Elcodis.com electronic components distributor Downlo



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.

190 bosstick blvd, ste 101 san marcos, ca 92069 phone 760.560.1300 fax 760.560.1301





Downloaded from **Elcodis.com** electronic components distributor