PLCC2 SMD TYPE LED





VAOL-S2YP4

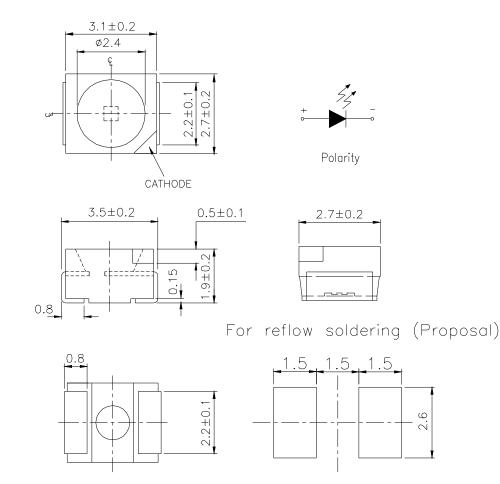
Features

- 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 .

Package Outline Dimensions



Note: The tolerances unless mentioned is ± 0.1 mm ,Unit = mm This is N-TOP chip

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Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol		Rating			Units
Reverse Voltage		VR		5		V	
Forward Current		IF		50		mA	
Operating Temperature		Topr		$-40 \sim +85$		°C	
Storage Temperature		Tstg		$-40 \sim +100$		°C	
Electrostatic Discharge(HBM)		ESD		2000		V	
Power Dissipation		Pd		120		mW	
Peak Forward Current (Duty 1/10 @1KHz)		Ifp	Ifp 100			mA	
Soldering Temperature		Tsol		e e		for 10 sec. 3 sec.	
Electro-Optical Characteristics (Ta=25°C)							
Parameter	Symbol	Min.	Тур	. M ax.	Unit	(Condition
Luminous intensity	IV	360		- 900	mcd	IF=20mA	
Viewing Angle	2 0 1/2		120)	deg		[F=20mA
Peak Wavelength	λp		592	l	nm		F=20mA
Dominant Wavelength	λd	586		- 594	nm		F=20mA
Spectrum Radiation Bandwidth	Δλ		20		nm		F=20mA
Forward Voltage	VF	1.75		- 2.35	V		IF=20mA
Reverse Current	IR			- 10	μA		VR=5V

Notes:

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

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		0			
Group	Bin Code	Min.	Max.	Unit	Condition
F	DD1	586	588	nm	IF=20mA
	DD2	588	590		
	DD3	590	592		
	DD4	592	594		

Bin Range Of Dominant Wavelength

Bin Rang Of Luminous Intensity

Bin	Min	Max	Unit	Condition
T2	360	450	med	IF=20mA
U1	450	565		
U2	565	715		
V1	715	900		

Bin Rang Of Forward Voltage

Group	Bin	Min	Max	Unit	Condition
В	0	1.75	1.95	V	IF=20mA
	1	1.95	2.15		
	2	2.15	2.35		

Notes:

1.Tolerance of Luminous Intensity ±10%

2.Tolerance of Dominant Wavelength \pm 1nm

3.Tolerance of Forward Voltage ±0.1V

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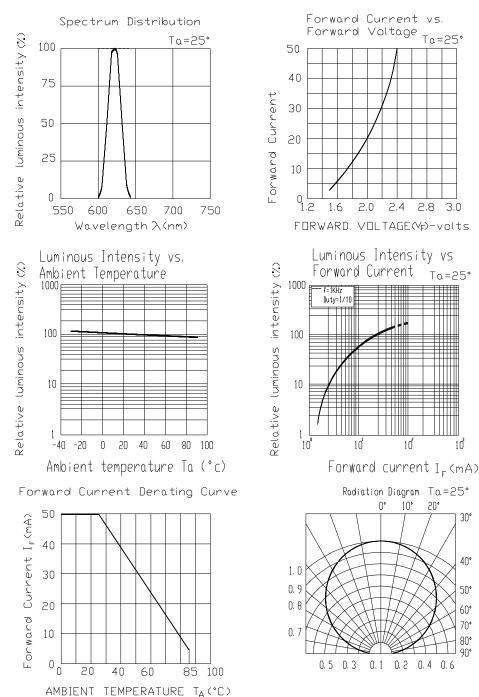




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Typical Electro-Optical Characteristics Curves

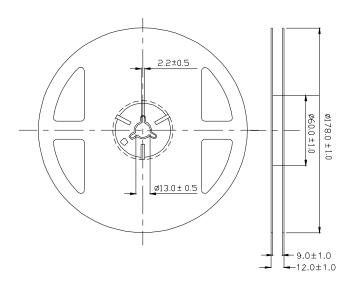


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Reel Dimensions



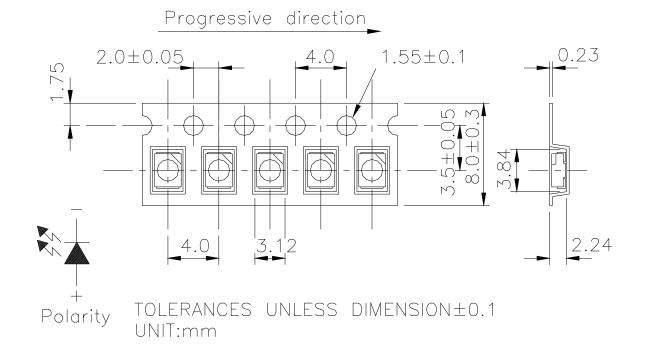
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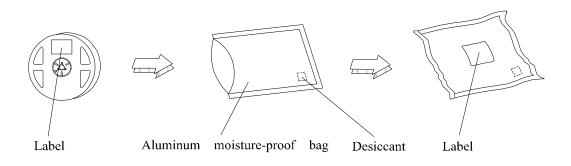




Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel.

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

Moisture Resistant Packaging





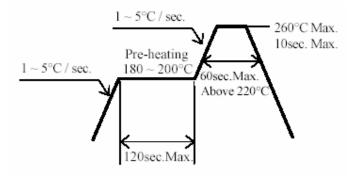
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Soldering Condition

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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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