VAOL-S12RP4

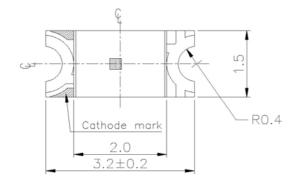
Features

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

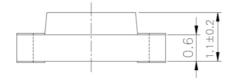
Descriptions

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

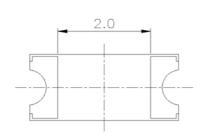
Package Outline Dimensions

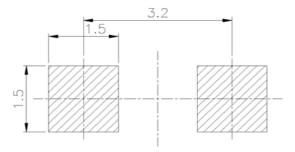






For reflow soldering (propose)





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





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	$^{\circ}$ C	
Storage Temperature	Tstg	-40~ +90	$^{\circ}$	
Electrostatic Discharge(HBM)	ESD	2000	V	
Power Dissipation	Pd	60	mW	
Peak Forward Current (Duty 1/10 @1KHz)	IF	60	mA	
Soldering Temperature	Tsol	Reflow Soldering: 260 °C for 10 sec. Hand Soldering: 350 °C for 3 sec.		

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	*Chip Rank	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity		A2	15	38		mcd	I 20 m A
		A3	36	54			
		A4	49	74			
	Iv	A5	60	92			
		A6	72	111			
		A7	85	133			
Viewing Angle	2 \theta 1/2			130		deg	I _F =20 mA
Peak Wavelength	λр			632		nm	
Dominant Wavelength	λd			624		nm	
Spectrum Radiation Bandwidth	Δλ			20		nm	
Forward Voltage	VF		1.7	2.0	2.4	V	
Reverse Current	Ir				10	μ A	V _R =5V

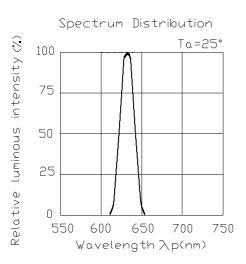
Specific binning requirements- please contact our home office

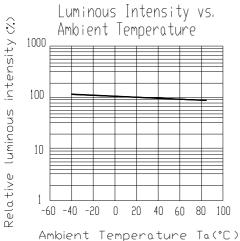


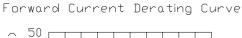


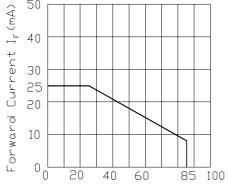


Typical Electro-Optical Characteristics

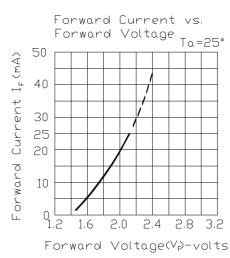


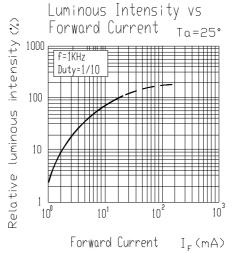


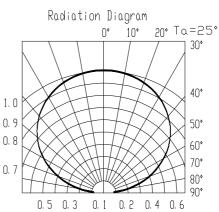




Ambient Temperature Ta(°C)





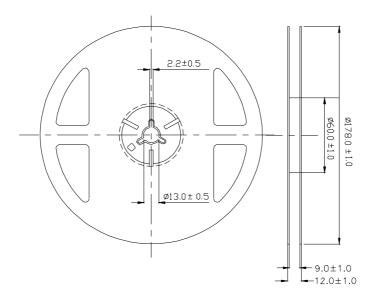








Reel Dimensions

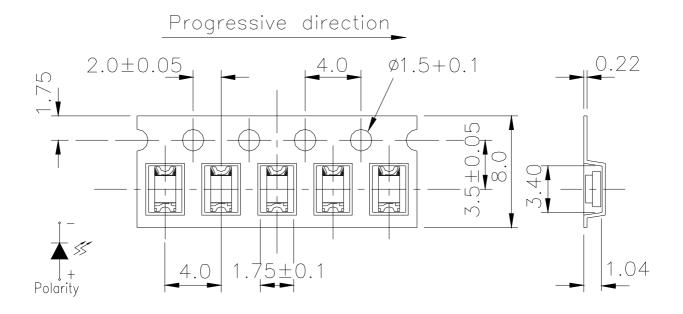


Note: The tolerances unless mentioned is ± 0.1 mm, Unit = mm



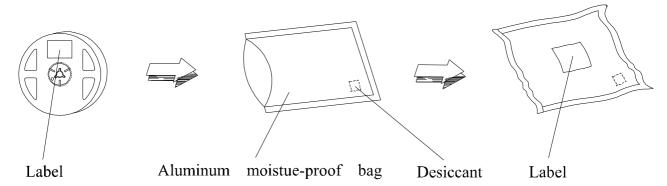


Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel



Note: Tolerances Unless Dimension is ± 0.1 mm, Unit = mm

Moisture Resistant Packaging

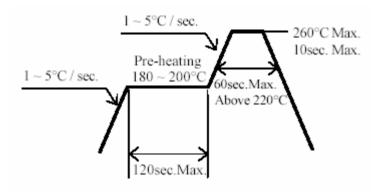






Soldering Condition

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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