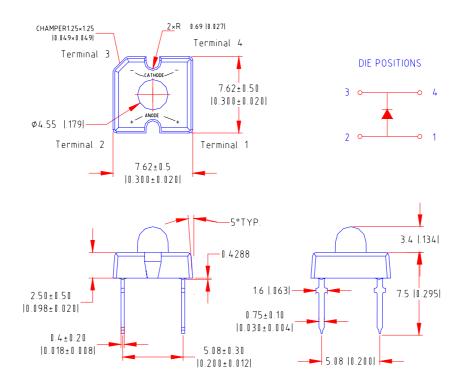




Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
LL-U48V1C-001	AlGaInP	Water Clear	Super Bright Red

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25mm (.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm (.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.
- 6. Precautions for ESD:

STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

7. This data-sheet only valid for six months.

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Absolute Maximum Ratings at Ta=25

Parameter	MAX.	Unit	
Power Dissipation	90	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA	
Continuous Forward Current	35	mA	
Derating Linear From 50	0.4	mA/	
Reverse Voltage	5	V	
Operating Temperature Range	-40 to +80		
Storage Temperature Range	-40 to +80		
Lead Soldering Temperature [4mm(.157") From Body]	260 for 5 Seconds		

Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	v	1200	2800	6000	mcd	I _f =20mA (Note 1)	
Viewing Angle	2 1/2	25	30	35	Deg	(Note 2)	
Peak Emission Wavelength	р	630	635	640	nm	I f=20mA	
Dominant Wavelength	d	625	630	635	nm	I _f =20mA (Note 3)	
Spectral Line Half-Width		15	20	25	nm	I f=20mA	
Forward Voltage	Vf	1.8	2.2	2.7	V	I f=20mA	
Reverse Current	R			100	μA	V _R =5V	

Notes:

- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- **3.**The dominant wavelength (d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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