

DATA SHEET

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Prepared By:

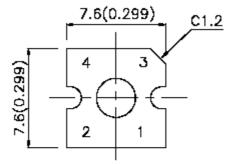
Part No.	LL-U47V2C-005	Spec No.	S/N-B510I100H15	Page	1 of 1
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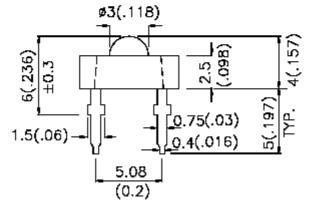


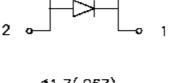
Features

- SUPER FLUX OUTPUT
- DESIGN FOR HIGH CURRENT OPERATION
- OUT STANDING MATERIAL EFFICIENCY
- RELIABLE AND RUGGED

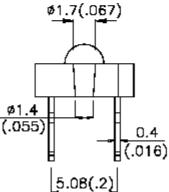
Package Dimension:







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Part NO.	Material	Lens Color	Source Color
LL-U47V2C-005	AlGaInP	Water Clear	Ultra Red

Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.25(.010")$ mm unless otherwise noted.

3. Protruded resin under flange is 1.0 mm(.04") max.

4. Lead spacing is measured where the leads emerge from the package.

5. Specifications are subject to change without notice.

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Absolute Maximum Ratings at Ta=25 $\ensuremath{^{\circ}\mathrm{C}}$

Parameter	MAX.	Unit		
Power Dissipation	100	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/°C		
Reverse Voltage	5	V		
Operating Temperature Range	-40°C to +80)°C		
Storage Temperature Range	-40°C to +80	-40℃ to +80℃		
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Se	260℃ for 5 Seconds		

Electrical Optical Characteristics at $\mathrm{Ta}{=}25\,^{\circ}\mathrm{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	1000	2000	4000	mcd	$I_{\scriptscriptstyle F}\!=\!70\text{mA}$ (Note 1)
Viewing Angle	$2 \ \theta_{_{1/2}}$		70	75	Deg	(Note 2)
Peak Emission Wavelength	λp	627	632	637	nm	$I_{\rm F}=20{\rm mA}$
Dominant Wavelength	λd	614	620	626	nm	$\mathrm{I_{F}=20mA}$ (Note 3)
Spectral Line Half-Width	$ riangle \lambda$	15	20	25	nm	I _F =20mA
Forward Voltage	$V_{\rm F}$	1.6	2.05	2.60	V	I _F =20mA
Reverse Current	I_{R}			100	μĄ	$V_R = 5V$

Note:

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

Part No.

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