

LL-AR180GD

DATA SHEET

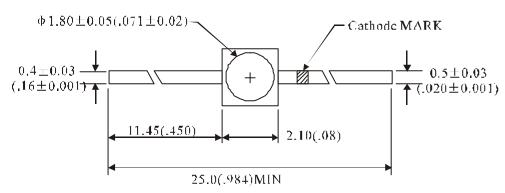
QC: ENG: Prepared By:

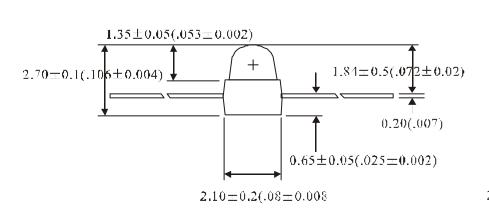


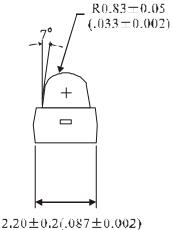
Features

- ♦ High intensity
- ♦ 1.8mm Round Subminiature Axial LEDs
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:







Part NO.	Chip Material	Lens Color	Source Color
LL-AR180GD	GaP	Green Diffused	Green

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.10(.004")$ unless otherwise specified.
- 3. Specifications are subject to change without notice
- 4. Caution in ESD:

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



Absolute Maximum Ratings at Ta=25?

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/		
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	lv		12.5		mcd	I _F =20mA (Note 1)
Viewing Angle	2 1/2		60		Deg	(Note 2)
Peak Emission Wavelength	р	566	572	576	nm	I _F =20mA
Dominant Wavelength	d	565	570	576	nm	I _F =20mA (Note 3)
Spectral Line Half-Width		13	18	23	nm	I _F =20mA
Forward Voltage	V_{F}	1.7	2.2	2.8	V	I _F =20mA
Reverse Current	I _R			100	μA	V _R =5V

Note:

- 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.



Typical Electrical / Optical Characteristics Curves (25? Ambient Temperature Unless Otherwise Noted)

