

LL-AR180BC

DATA SHEET

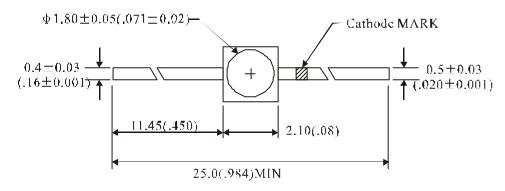
QC: ENG: Prepared By:

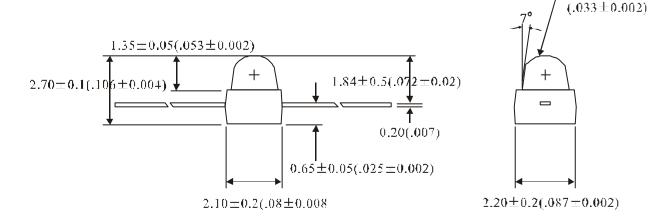


Features

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

Package Dimension:





 $R0.83 \pm 0.05$

Part NO.	Lens Color	Source Color		
LL-AR180BC	Water Clear	Super Bright Blue		

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.

Part No.	LL-AR180BC	Spec No.	S/N-01101811S	Page	2 of 4
----------	------------	----------	---------------	------	---------------



Absolute Maximum Ratings at Ta=25?

Parameter	MAX.	Unit	
Power Dissipation	120	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	-30 to +80		
Storage Temperature Range	-40 to +85		
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	15	40	60	mcd	I _F =20mA (Note 1)
Viewing Angle	2 1/2		60		Deg	(Note 2)
Peak Emission Wavelength	р	463	468	473	Nm	$I_{\text{F}}=20\text{mA}$
Dominant Wavelength	d	460	470	480	Nm	I _F =20mA (Note 3)
Spectral Line Half-Width		35	40	45	Nm	$I_{\text{F}}=20\text{mA}$
Forward Voltage	V_{F}	2.8	3.5	4.0	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)

