



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

L-53MBDL-12V

BLUE

PRELIMINARY SPEC

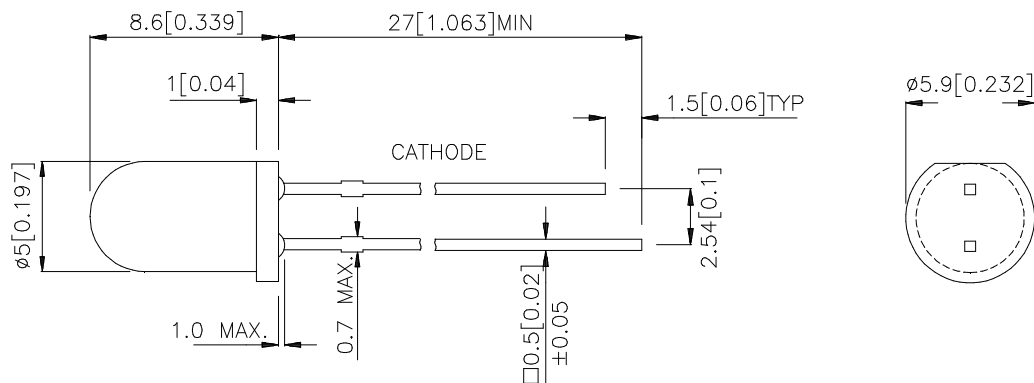
Features

- LOW POWER CONSUMPTION.
- POPULAR T-13/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 12V INTERNAL RESISTOR.

Description

The Blue source color devices are made with GaN on SiC Light Emitting Diode.
Static electricity and surge damage the LEDs.
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.
All devices, equipment and machinery must be electrically grounded.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 (0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) V=12V		Viewing Angle
			Min.	Typ.	2 θ 1/2
L-53MBDL-12V	BLUE (GaN)	BLUE DIFFUSED	12	40	60°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

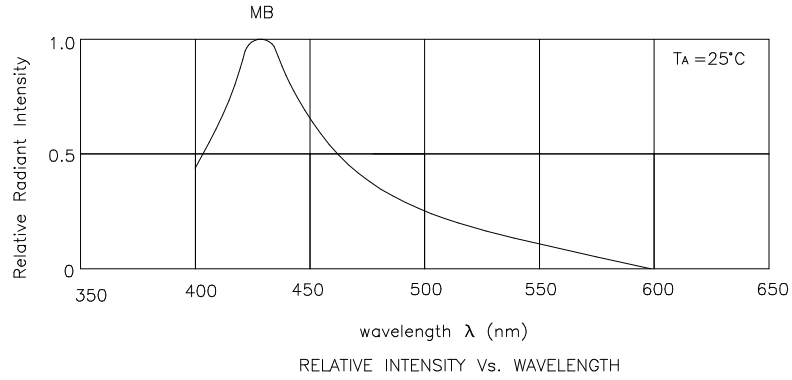
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Blue	430		nm	VF=12V
λ_D	Dominate Wavelength	Blue	466		nm	VF=12V
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Blue	60		nm	VF=12V
I_F	Forward Current	Blue	7.5	10	mA	VF=12V
I_R	Reverse Current	Blue		10	uA	VR= 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units
Power dissipation	120	mW
Forward Voltage	14	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[1]	260°C For 5 Seconds	

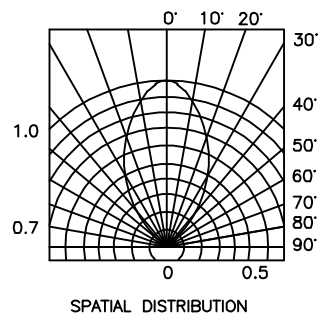
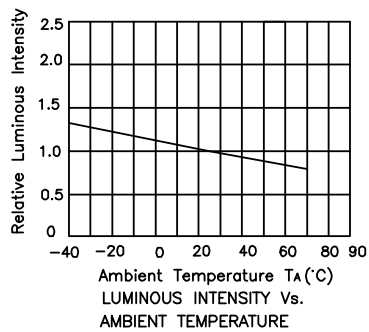
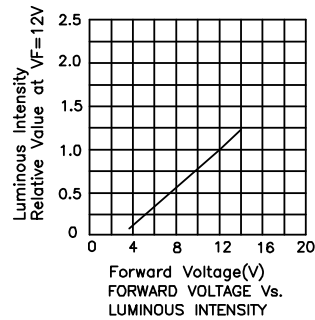
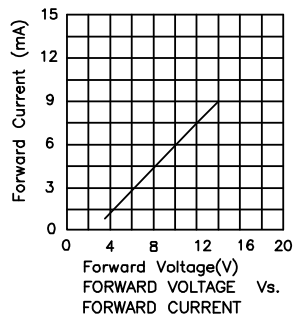
Note:

1. 2mm below package base.



Blue

L-53MBDL-12V



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