

T-1 3/4 (5mm) SOLID STATE LAMP

L-53MBT

BLUE

Features

- •LOW POWER CONSUMPTION.
- ●POPULAR T-1 3/4 DIAMETER PACKAGE.
- •GENERAL PURPOSE LEADS.
- •RELIABLE AND RUGGED.
- •LONG LIFE SOLID STATE RELIABILITY.

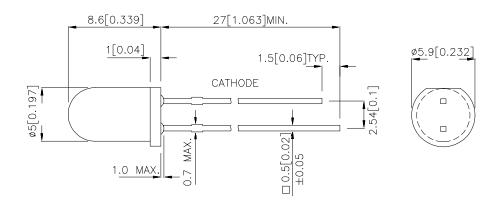
Description

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 $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the lead emerge package.
- 4. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20 mA		Viewing Angle
			Min.	Тур.	201/2
L-53MBT	BLUE (GaN)	BLUE TRANSPARENT	50	100	16°

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Blue	430		nm	IF=20mA	
λD	Dominate Wavelength	Blue	466		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Blue	60		nm	IF=20mA	
С	Capacitance	Blue	100		pF	V _F =0V;f=1MHz	
VF	Forward Voltage	Blue	3.8	4.5	V	IF=20mA	
IR	Reverse Current	Blue		10	uA	V R = 5V	

Absolute Maximum Ratings at T_A=25°C

Parameter	Blue	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

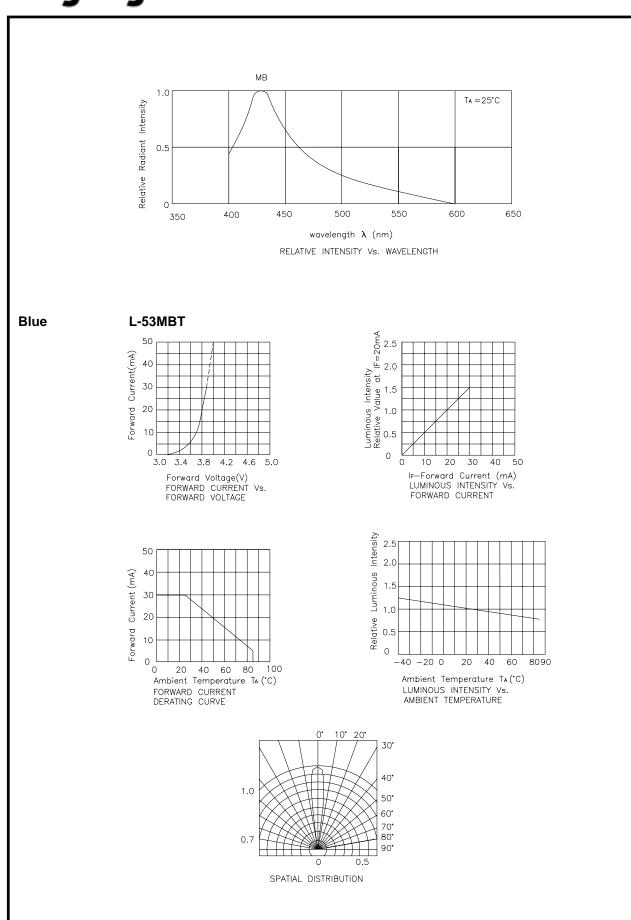
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Note: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

^{1. 1/10} Duty Cycle, 0.1ms Pulse Width.

^{2. 2}mm below package base.

Kingbright



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