Kingbright

T-1 3/4 (5mm) BLUE LED

L-53MBD GaN

L-53MBT GaN

L-53MBC GaN

Features

- •LOW POWER CONSUMPTION.
- SOLID STATE BLUE LIGHT SOURCE.
- •SUITABLE FOR FULL COLOR LED DSIPLAYS AND INDICATORS DIAGNOSTIC/ANALYTICAL EQUIPMENT.

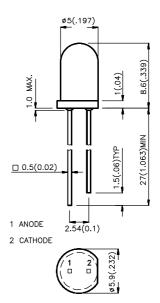
Description

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 handing 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 subjected to change without

Selection Guide

Part No.	Dice	Case-Color	lv (mcd) @ 20 mA		Viewing Angle
			Min.	Max.	2θ1/2
L-53MBD	Blue (GaN)	BLUE DIFFUSED	20	60	50°
L-53MBT	Blue (GaN)	BLUE TRANSPARENT	20	100	16°
L-53MBC	Blue (GaN)	WATER CLEAR	40	150	16°

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

Electrical / Optical Characteristics at $T_{\text{A}}{=}25\,^{\circ}\text{C}$

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength		430		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth		65		nm	IF=20mA
С	Capacitance	Blue (GaN)	100		pF	VF=0V;f=1MHz
V _F	Forward Voltage		4.5	5.5	V	IF=20mA
I _R	Reverse Current		10		uA	VR = 5V

Absolute Maximum Ratings at $T_A=25^{\circ}C$

Parameter	Blue	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	200	mA
Reverse Voltage	5	V
Operation/Storage Temperature	-40° To +85°C	·
Lead Solder Temperature [2]	260°C For 5 Seconds	

- Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2. 4mm below package base.

