

# Kingbright®

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

L53MWC

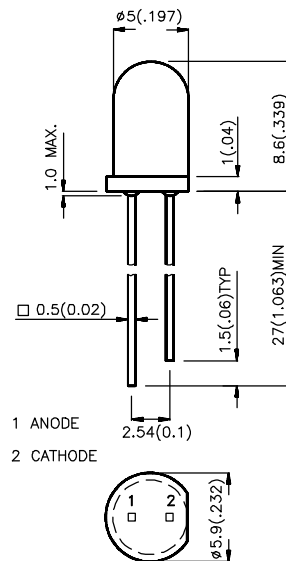
### Features

- HIGH EFFICIENCY.
- WHITE EMISSION,HIGH LUMINOUS INTENSITY.

### Description

The Blue source color devices are made with GaN on SiC Light Emitting Diode.

### 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 subjected to change without notice.

### Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Max.	$2\theta_{1/2}$
L53MWC	WHITE (GaN)	WATER CLEAR	100	300	16°

Note:  
1.  $\theta_{1/2}$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

**Electrical / Optical Characteristics at T<sub>A</sub>=25° C**

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V <sub>F</sub>	Forward Voltage	White	3.6	4.0	V	IF=20mA
I <sub>R</sub>	Reverse Current	White	10		uA	VR = 5V
X	Chromaticity Coordinates	White	0.31			
Y			0.32			

**Absolute Maximum Ratings at T<sub>A</sub>=25° C**

Parameter	White	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating Temperature	-30° C To + 80° C	
Storage Temperature	-40° C To + 100° C	
Lead Soldering Temperature [2]	260° C For 5 Seconds	

## Notes:

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