

Features

L-53MWC

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

Description

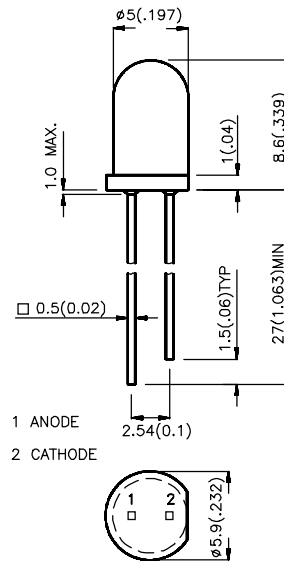
The white source color devices are made with GaN on SiC Light Emitting Diode.

Static electricity and surge damage the LEDs.

It is recommended to use a wrist band or antielectrostatic 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 subjected to change without notice.

Selection Guide

Part No.	Dice	Case-Color	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
L-53MWC	WHITE (GaN)	WATER CLEAR	80	200	30°

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_A=25°C

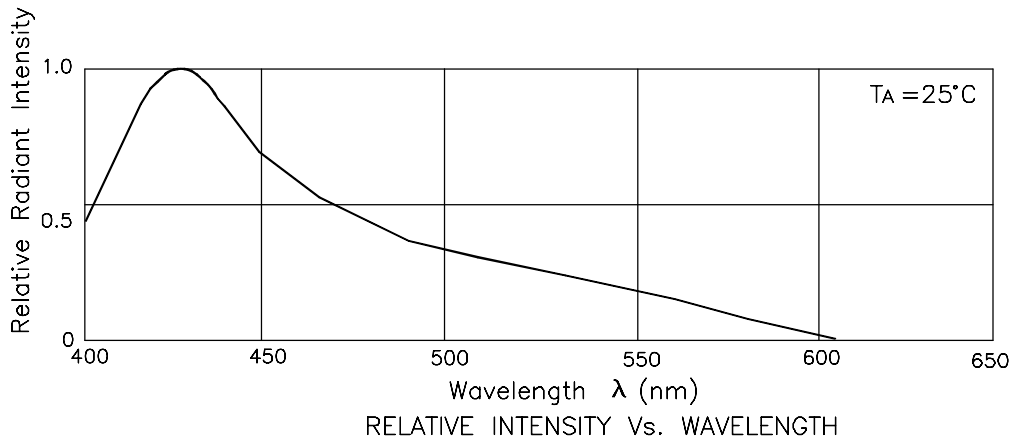
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V _F	Forward Voltage	White	3.8	4.5	V	IF=20mA
I _R	Reverse Current	White	10		uA	VR = 5V
X	Chromaticity Coordinates	White	0.31			
Y			0.32			

Absolute Maximum Ratings at T_A=25°C

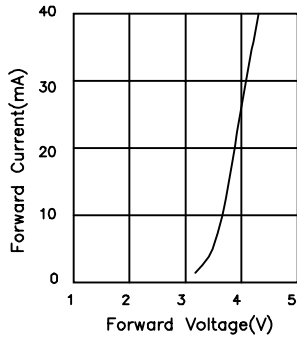
Parameter	White	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating Temperature	-30 °C To + 80 °C	
Storage Temperature	-40 °C To + 100 °C	
Lead Soldering Temperature [2]	260 °C For 5 Seconds	

Notes:

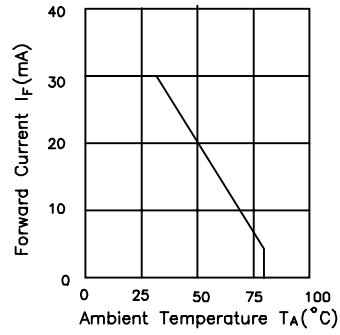
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



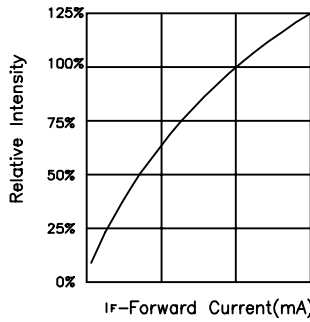
White L-53MWC



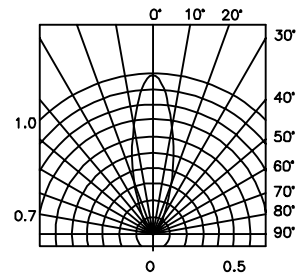
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE



RELATIVE INTENSITY Vs. FORWARD CURRENT



SPATIAL DISTRIBUTION