

L1544PWC WHITE

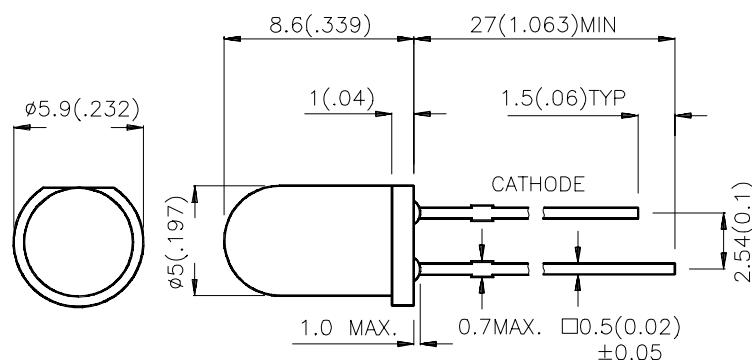
Features

- WIDE VIEWING ANGLE.
- WATER CLEAR LENS.
- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.

Description

The source color devices are made with InGaN 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 subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
L1544PWC	WHITE (InGaN)	WATER CLEAR	100	300	50°

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 T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V _F	Forward Voltage	White	3.65	4.2	V	I _F =20mA
I _R	Reverse Current	White		10	uA	V _R = 5V
X	Chromaticity Coordinates	White	0.33			
Y			0.34			
c	capacitance	White	65		pF	V _F =0V, f=1MHz

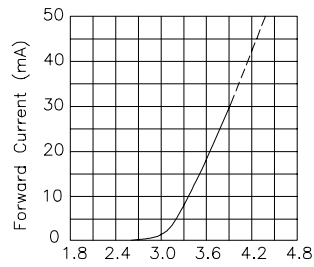
Absolute Maximum Ratings at T_A=25°C

Parameter	White	Units
Power dissipation	102	mW
DC Forward Current	30	mA
Forward Current (Peak)[1]	160	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[2]	260°C For 5 Seconds	

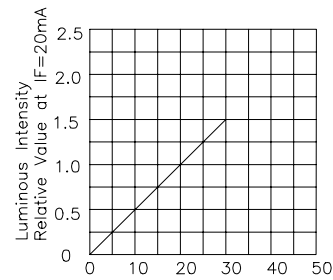
Notes:

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

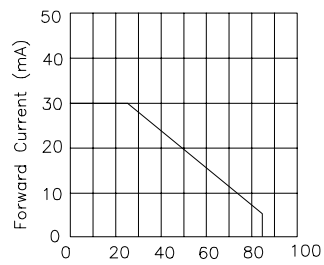
White L1544PWC



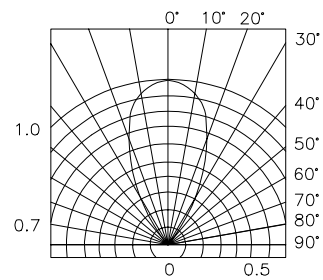
Forward Voltage(V)
FORWARD CURRENT Vs.
FORWARD VOLTAGE



I_f —Forward Current (mA)
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



Ambient Temperature T_a (°C)
FORWARD CURRENT
DERATING CURVE



SPATIAL DISTRIBUTION