

LL-504WM2E-W2-1C

DATA SHEET

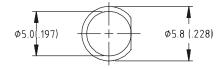
QC: ENG: Prepared By:

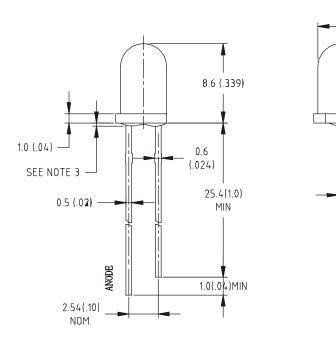


Features

- ♦ High intensity
- ◆ Standard T-1 3/4 diameter package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:





Part NO.	Chip Material	Lens Color	Source Color
LL-504WM2E-W2-1C	GaInN	White Diffused	White

Ø4.9 (.193)

0.5 (.02)

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(.010")$ mm unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max
- 4. Lead spacing is measured where the leads emerge from the package.
- **5.** Specifications are subject to change without notice.
- 6. Caution in ESD:

Siatic Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED.All devices, equipment and machinery must be properly grounded.

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Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	35	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°	C
Storage Temperature Range	-40°C to +80°	°C
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Sec	onds

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	2000	4000		mcd	I _f =20mA (Note 1)
Viewing Angle	$2 heta_{ ext{1/2}}$		50		Deg	(Note 2)
$x = \frac{X}{X + Y + Z} = \frac{\operatorname{Re} d}{\operatorname{Re} d + \operatorname{Green} + Blue}$	X		0.31	0.34		I _F =20mA (Note 3)
$y = \frac{Y}{X + Y + Z} = \frac{Green}{\operatorname{Re} d + Green + Blue}$	у		0.31	0.34		I _F =20mA (Note 3)
Forward Voltage	V_{F}	2.8	3.6	4.0	V	I _F =20mA
Reverse Current	I_R			10	μΑ	V _R =5V

Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. It use many parameters that correspond to the CIE 1931 2°. X,Y, and Z are CIE 1931 2° values of Red, Green and Blue content of the measurement.

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Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

