

5mm Green Diffused, Water Clear

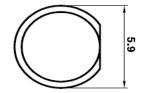
- ♦ 5.0mm LED LAMP
- **♦ LOW POWER CONSUMPTION**
- ♦ HIGH LUMINOUS INTENSITY
- **♦** ROHS COMPLIANT

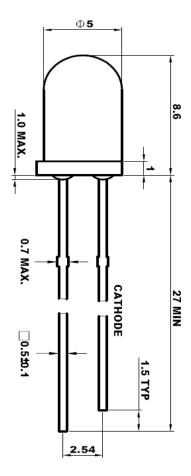
FEATURES

- Low power consumption.
- High Luminous Output
- High Reliability and Solid
- Optimal Optical/ Mechanical Design
- Compliant with RoHS



- Chip Material: GaP
- Emitting Color: Green Diffused
- Lens Color: Water Clear





Note:

Tolerance is ± 0.25mm

SELECTION GUIDE

Chip Material	Chip Emitted	Lens Color	Viewing Angle
GaP	Green Diffused	Water Clear	60°



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ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	P _D	65	mW
Pulse Current Forward Current	I _{FP}	100	mA
Forward Average Current	I _F	25	mA
Reverse Voltage	V_R	5.0	V
Operating Temperature Range	T _{OPR}	-40 ~ +85	°C
Storage Temperature Range	T _{STG}	-40 ~ +85	°C

OPTICAL-ELECTRICAL CHARACTERISTICS

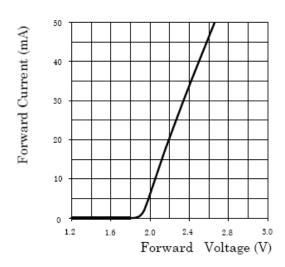
Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Luminous Intensity	I _V	$I_F = 20mA$	5	20		mcd
Forward Voltage	V _F	$I_F = 20 \text{mA}$		2.05	2.6	V
Reverse Leakage Current	I _R	$V_R = 5V$		10		μΑ
Viewing Angle	201/2	$I_F = 20mA$		60		deg.
Peak Wavelength	λP	$I_F = 20 \text{mA}$		568		nm
Dominant Wavelength	λ _D	$I_F = 20mA$		570		nm
Spectral Line half-width	Δλ	$I_F = 20mA$		30		nm



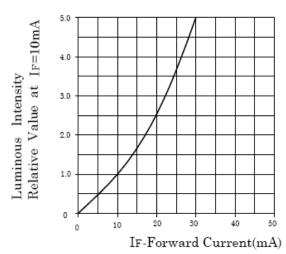
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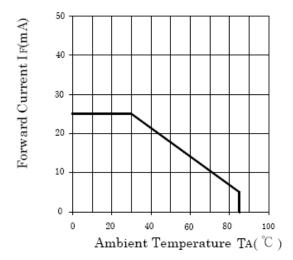
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES



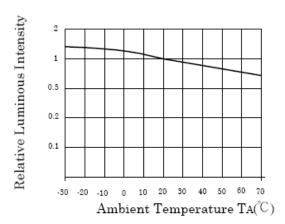
Forward Current Vs. Forward Voltage



Luminous Intensity Vs. Forward Current



Forward Current Derating Curve



Luminous Intensity Vs. Ambient Temperature

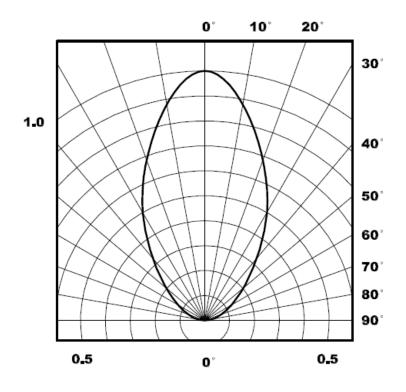


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WAVE SOLDERING

SOLDERING INSTRUCTIONS						
	DIP AND WAVE SOLDERING		IRON SOLDERING (WITH 1.5mm IRON TIP)			
TYPE	TEMPERATURE OF THE SOLDERING BATH	MAXIMUM SOLDERI NG TIME	DISTANCE FROM SOLDER JOIN TO CASE	TEMPERATU RE OF SOLDERING IRON	MAXIMUM SOLDERI NG TIME	DISTANCE FROM SOLDER JOINT TO CASE
LEDS	≤ 260°C	3\$	>2mm	≤ 295°C	3\$	>2mm
	≤ 260°C	5S	>4mm	≤ 295°C	5S	>4mm
DISPLAYS	≤ 260°C	38	>2mm	≤ 295°C	38	>2mm



View Angle 2 *θ* 1/2**=**60°