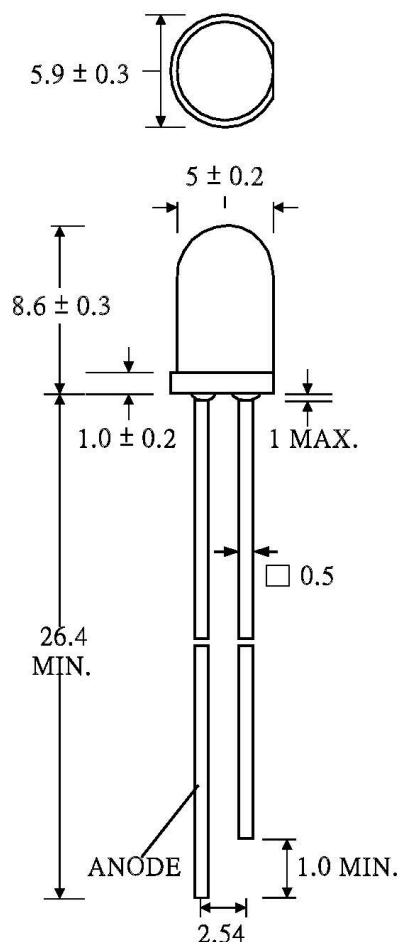


DESCRIPTION

- Super bright LED Lamp
- Round type
- T1-3/4 (5mm) diameter
- Lens color: Water Clear
- With Flange
- Solder leads without stand-off
- Compliant with RoHS

FEATURES

- Emitted color: Super Blue
- High Luminous intensity
- Technology: InGaN
- Peak wavelength $\lambda_p = 468\text{nm}$
- Viewing angle: 30°



Notes:

1. All dimensions are in millimeter.
2. Lead spacing is measured where the lead emerge from the package.

SELECTION GUIDE

Chip Material	Chip Emitted	Lens Color	Viewing Angle
InGaN	Super Blue	Water Clear	30°

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ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	MAX. RATING	Unit
Power Dissipation	P _D	60	mW
Peak Forward Current (1/10 Duty Cycle @1KHz)	I _{FP}	100	mA
Reverse Voltage	V _R	5.0	V
Operating Temperature Range	T _{OPR}	-40~+85	°C
Storage Temperature Range	T _{STG}	-40~+100	°C

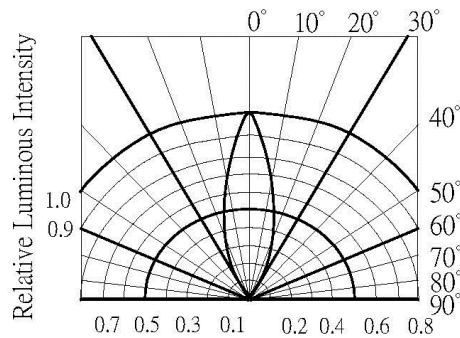
Solder temperature 1.6 mm from body for 3 seconds at 260°C

OPTICAL-ELECTRICAL CHARACTERISTICS

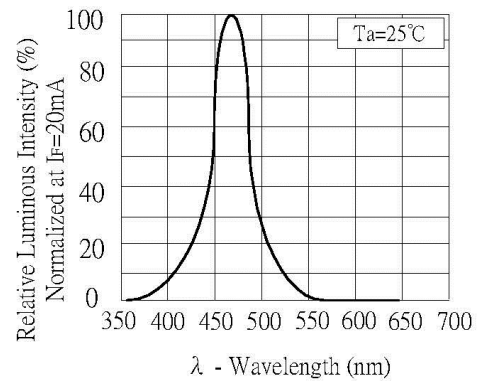
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	I _V	I _F = 20mA	3300	5000		mcd
Forward Voltage	V _F	I _F = 20mA		3.2	3.8	V
Reverse Current	I _R	V _R = 5V			10	uA
Viewing Angle	2θ1/2	I _F = 20mA		30		deg.
Peak Wavelength	λ _P	I _F = 20mA		468		nm
Dominant Wavelength	λ _D	I _F = 20mA		470		nm
Spectrum Radiation Bandwidth	△λ	I _F = 20mA		30		nm

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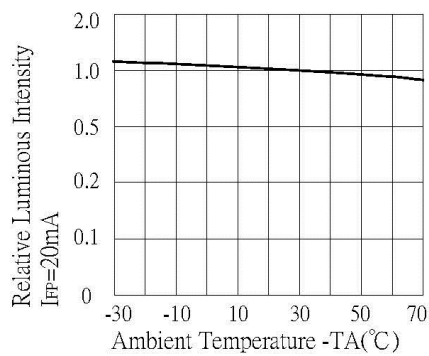
TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



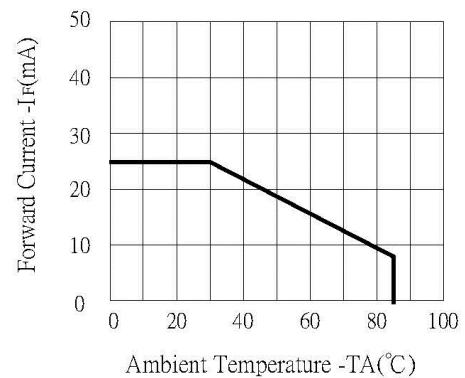
RADIATION DIAGRAM



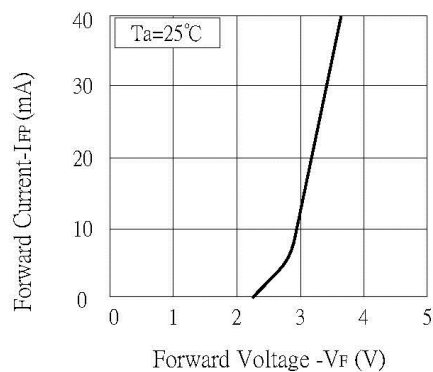
**RELATIVE LUMINOUS INTENSITY
Vs. WAVELENGTH**



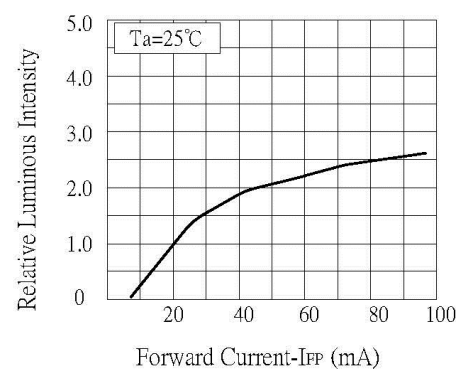
**LUMINOUS INTENSITY
Vs. AMBIENT TEMPERATURE**



**MAX FORWARD CURRENT
Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT
Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY
Vs. FORWARD CURRENT**

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