



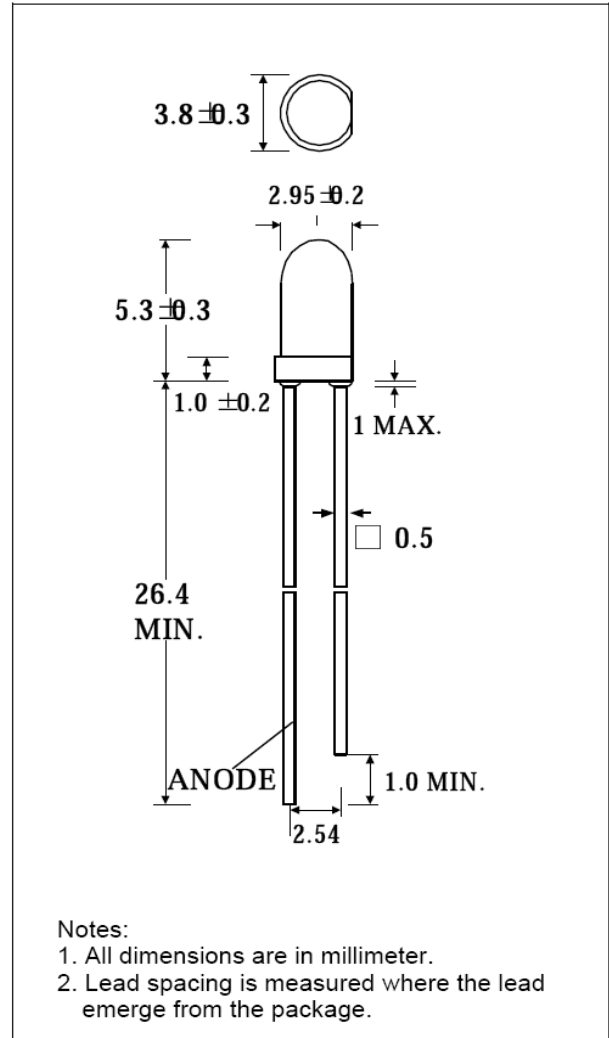
B3B-440-JB

DESCRIPTION

- Super bright LED Lamp
- Round type
- T-1 3mm diameter
- Lens color: Water Clear
- With Flange
- Solder leads without stand-off
- Compliant with RoHS

FEATURES

- Emitted color: White
- High Luminous intensity
- Technology: InGaN
- Typical emission color: x=0.31, y=0.32
- Viewing angle: 20°



SELECTION GUIDE

Chip Material	Emitted Color	Lens Color	Viewing Angle
InGaN	White	Water Clear	20°

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ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	MAX. RATING	Unit
Power Dissipation	P_D	120	mW
Peak Forward Current (1/10 Duty Cycle @1KHz)	I_{FP}	100	mA
Continuous Forward Current	I_F	30	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

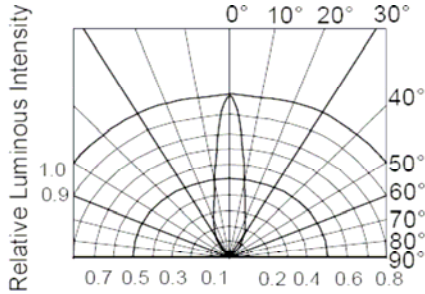
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	I_V	$I_F = 20mA$	2400	3500		mcd
Forward Voltage	V_F	$I_F = 20mA$		3.5	4.0	V
Reverse Current	I_R	$V_R = 5V$			10	uA
Viewing Angle	$2\theta_{1/2}$	$I_F = 20mA$		20		deg.

*Tolerance of Viewing Angle: -10 / +5 deg.

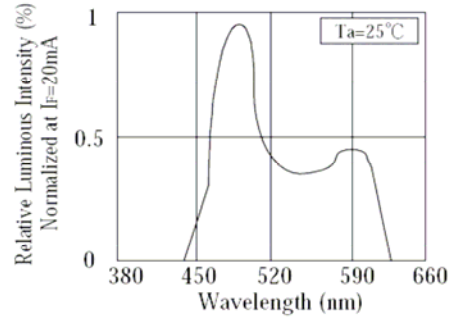
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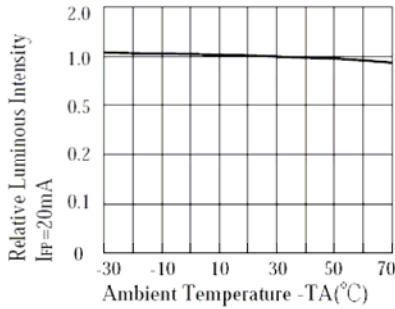
TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



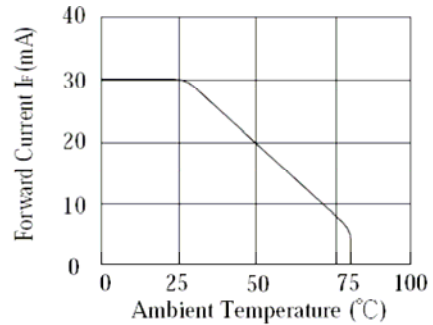
RADIATION DIAGRAM



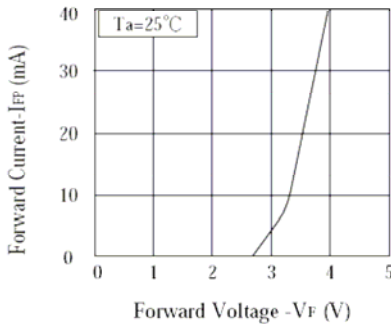
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



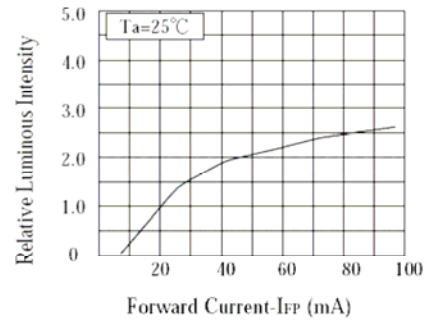
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

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