

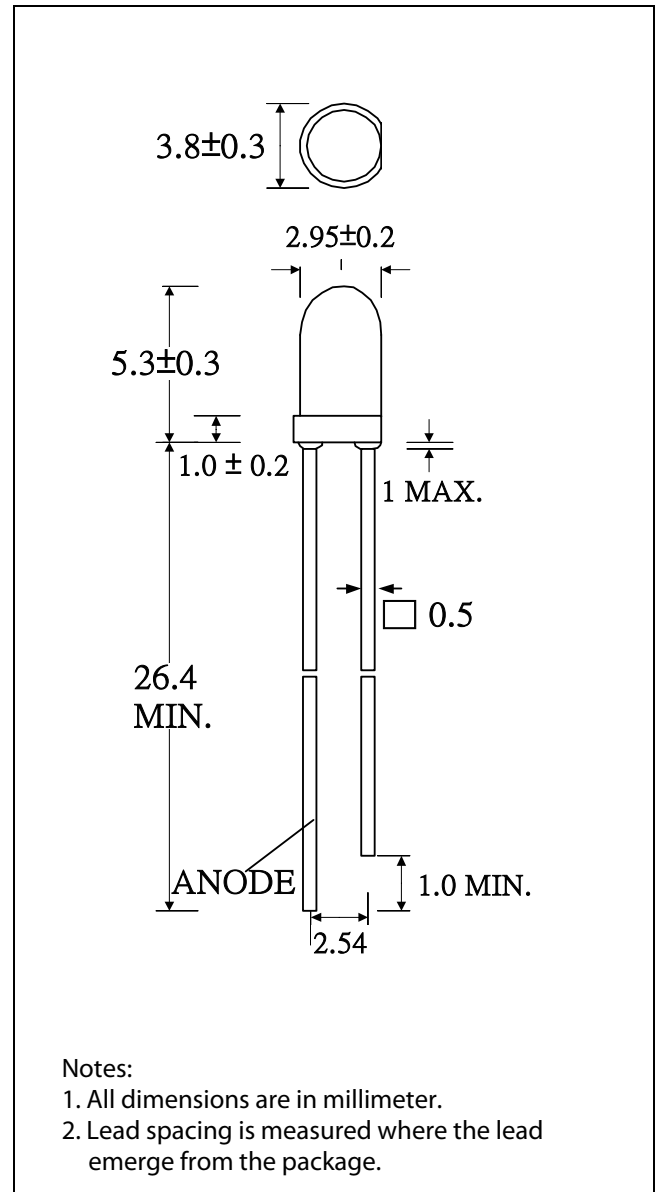
Part No.: 3-22b-WC40-JD

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: 30°



SELECTION GUIDE

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

Part No.: 3-22b-WC40-JD**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

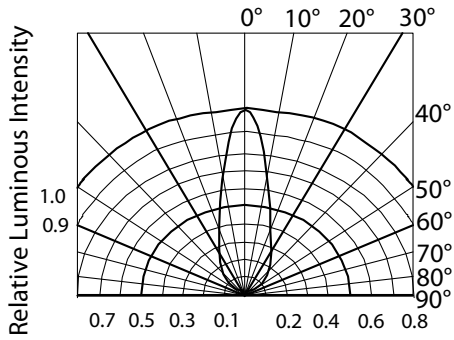
OPTICAL-ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	I_V	$I_F = 20mA$	1600	2400		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 θ1/2	$I_F = 20mA$		30		deg.

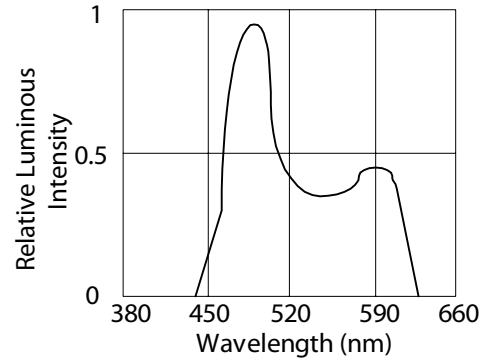
*Tolerance of Viewing Angle: -10 / +5 deg.

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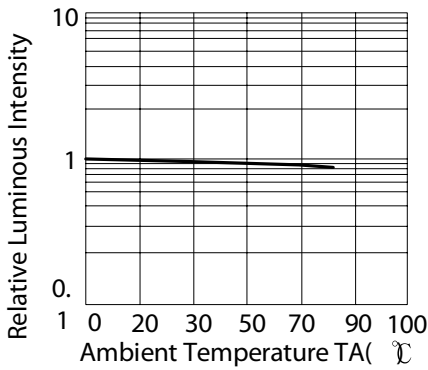
TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



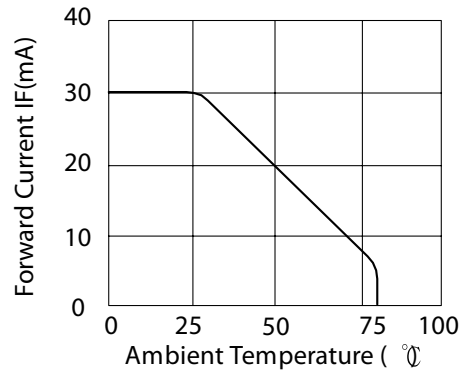
RADIATION DIAGRAM



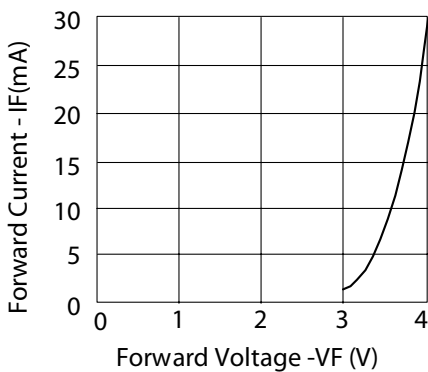
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



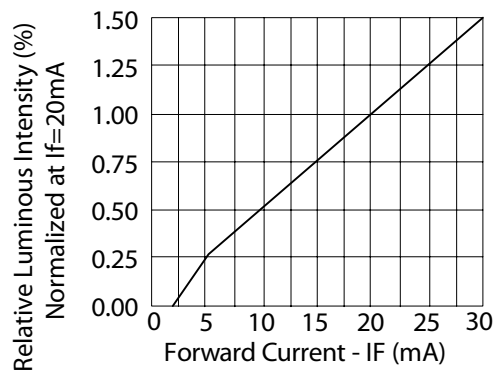
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT