

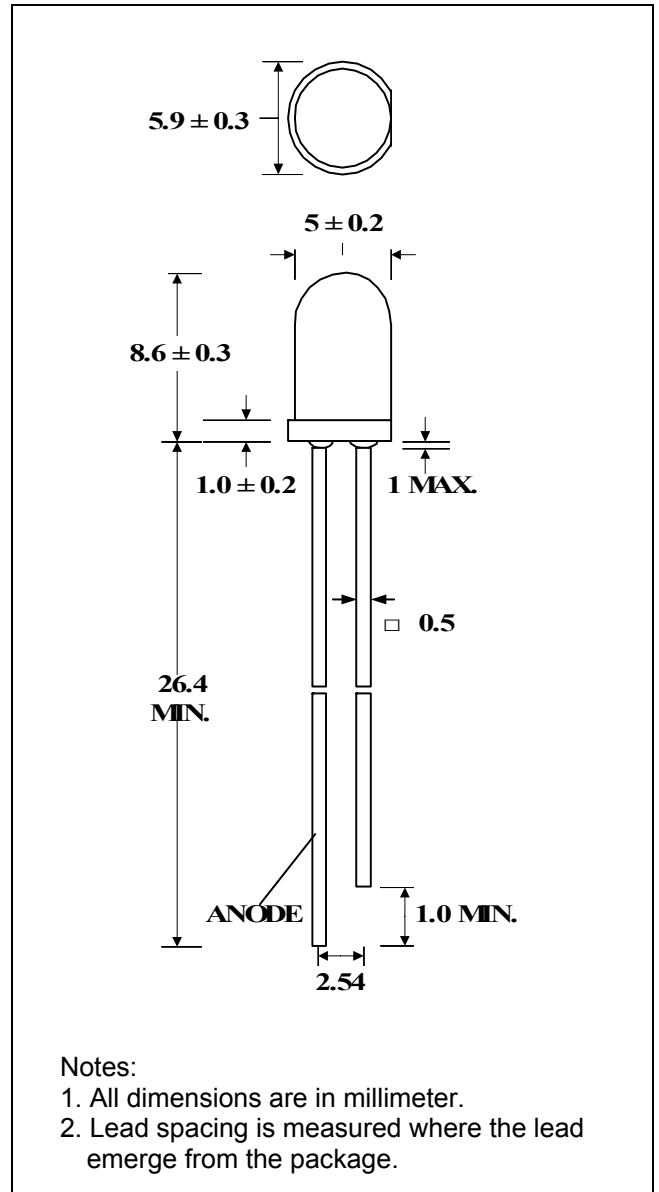
**B5-437-CVD**

**DESCRIPTION**

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

**FEATURES**

- Emitted color: Super Blue
- High Luminous intensity
- Technology: InGaN
- Peak wavelength  $\lambda_p = 395\text{nm}$
- Viewing angle:  $30^\circ$



**SELECTION GUIDE**

Chip Material	Chip Emitted	Lens Color	Viewing Angle
InGaN	Ultra Violet	Water Clear	$30^\circ$

**B5-437-CVD**

**ABSOLUTE MAXIMUM RATINGS**

(Ta=25 °C)

PARAMETER	SYMBOL	MAX. RATING	Unit
Power Dissipation	P <sub>D</sub>	120	mW
Peak Forward Current (1/10 Duty Cycle @1KHz )	I <sub>PF</sub>	100	mA
Continuous Forward Current	I <sub>AF</sub>	30	mA
Reverse Voltage	V <sub>R</sub>	5.0	V
Operating Temperature Range	T <sub>OPR</sub>	-20~+80	°C
Storage Temperature Range	T <sub>STG</sub>	-30~+100	°C

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

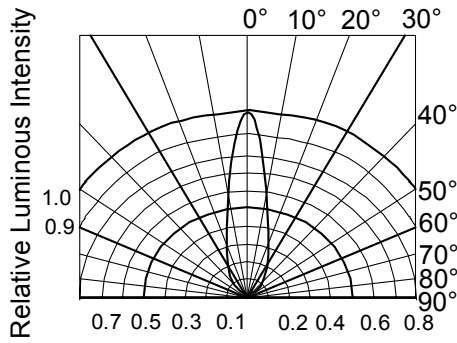
**OPTICAL-ELECTRICAL CHARACTERISTICS**

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 20mA	35	50		mcd
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA		3.5	4.0	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5V			10	uA
Viewing Angle	2θ <sub>1/2</sub>	I <sub>F</sub> = 20mA		30		deg.
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> = 20mA		400		nm
Dominant Wavelength	λ <sub>D</sub>	I <sub>F</sub> = 20mA		395		nm
Spectrum Radiation Bandwidth	Δλ	I <sub>F</sub> = 20mA		30		nm

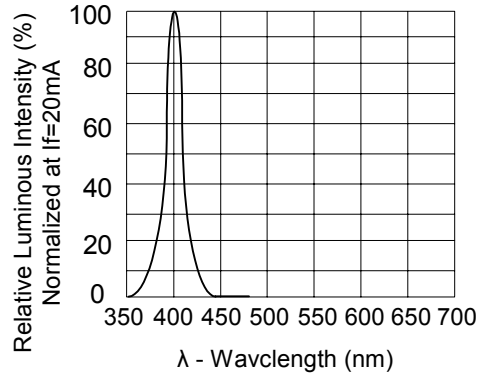
\*Tolerance of Viewing Angle: -10 / +5 deg.

**B5-437-CVD**

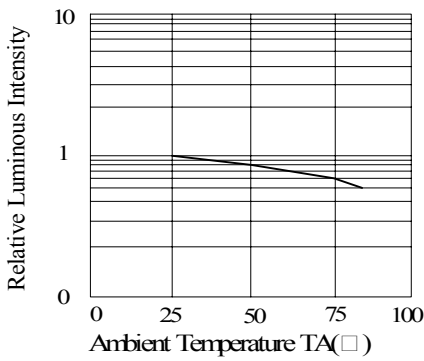
**TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES**



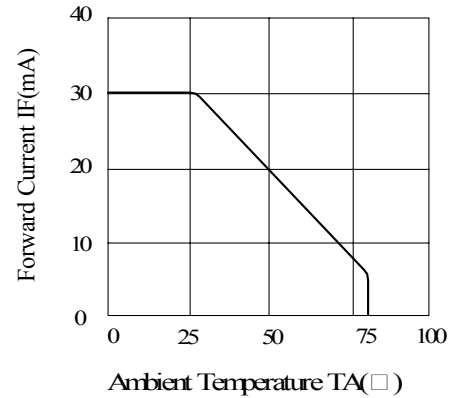
**RADIATION DIAGRAM**



**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**

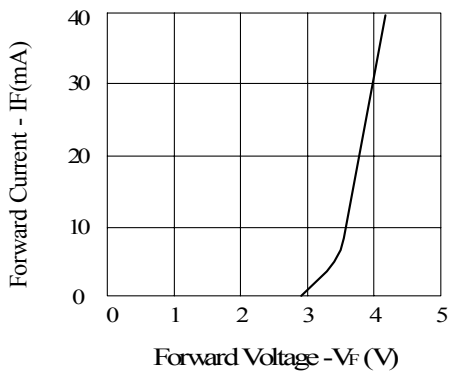


**EINBETTEN**

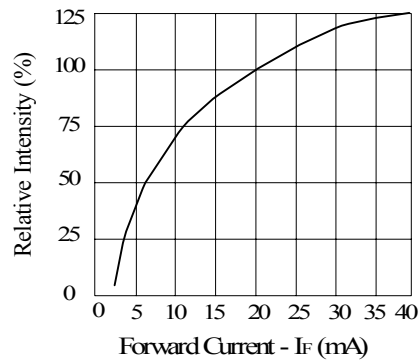


**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**

**FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**EINBETTEN**

**LUMINOUS INTENSITY Vs. FORWARD CURRENT**

**B5-437-CVD**