



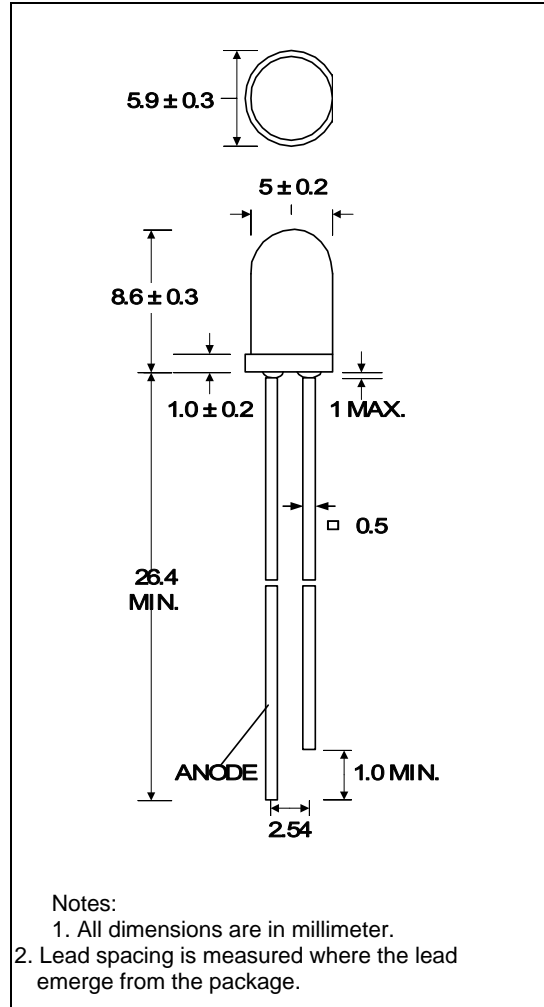
B5-437-CVD

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°



SELECTION GUIDE

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



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 _{PF}	100	mA
Continuous Forward Current	I _{AF}	30	mA
Reverse Voltage	V _R	5.0	V
Operating Temperature Range	T _{OPR}	-20~+80	°C
Storage Temperature Range	T _{STG}	-30~+100	°C

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

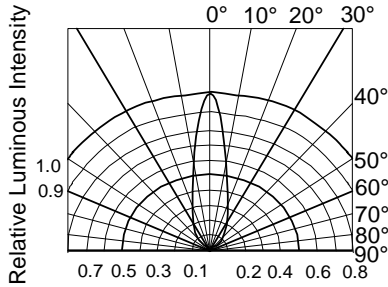
OPTICAL-ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	I _V	I _F = 20mA	35	50		mcd
Forward Voltage	V _F	I _F = 20mA		3.5	4.0	V
Reverse Current	I _R	V _R = 5V			10	uA
Viewing Angle	2θ _{1/2}	I _F = 20mA		30		deg.
Peak Wavelength	λ _P	I _F = 20mA		400		nm
Dominant Wavelength	λ _D	I _F = 20mA		395		nm
Spectrum Radiation Bandwidth	Δλ	I _F = 20mA		30		nm

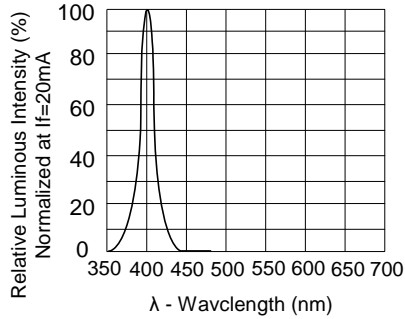
*Tolerance of Viewing Angle: -10 / +5 deg.



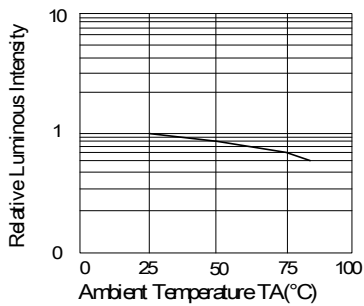
TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



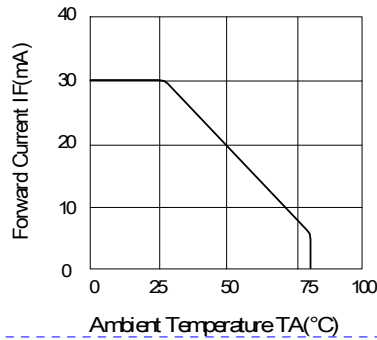
RADIATION DIAGRAM



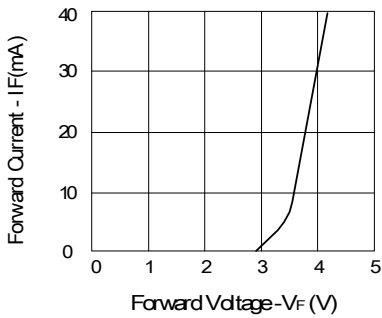
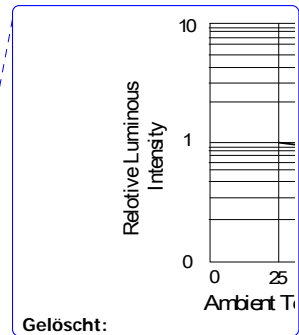
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



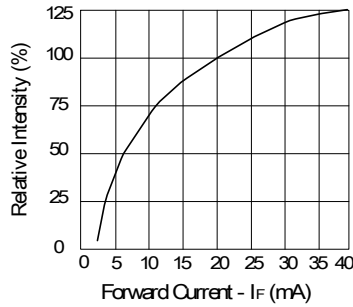
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

