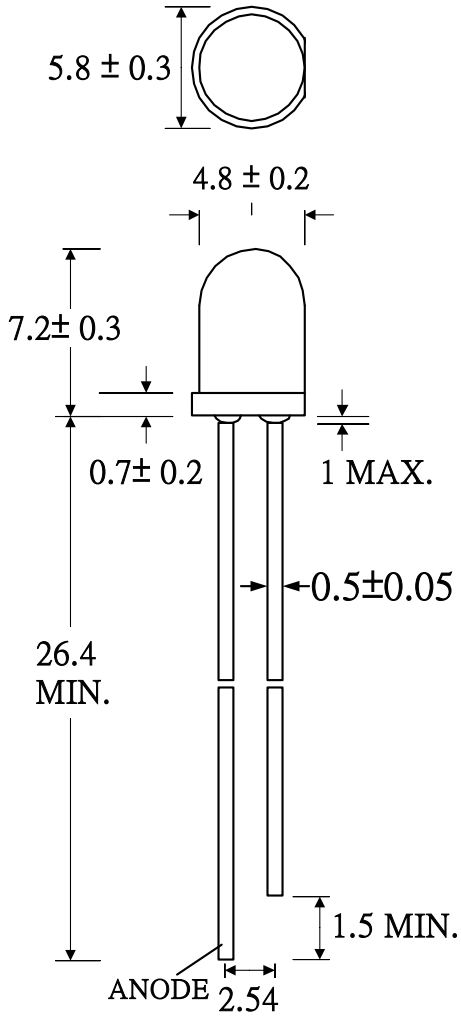
Bispa (Super-BrightLED)

BL5-SPBL60-2400

DISCRIPTION

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



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

FEATURES

Emitted color: Super Blue
High Luminous intensity
Technology: InGaN
Peak wavelength λ_p = 473nm
Viewing angle:60°
UV resistant epoxy

SELECTION GUIDE

Chip Material	Chip Emitted	Lens Color	Viewing Angle
InGaN	Super Blue	Water Clear	60°

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

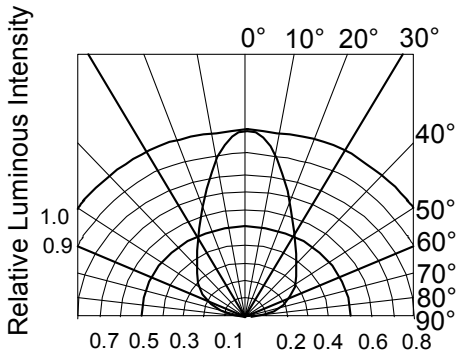
PARAMETER	SYMBOL	MAX. RATING	Unit
Power Dissipation	P_D	120	mW
Peak Forward Current (1/10 Duty Cycle @1KHz)	I_{PF}	100	mA
Continuous Forward Current	I_{AF}	30	mA
Reverse Voltage	V_R	5.0	V
Operating Temperature Range	T_{OPR}	-20~+70	℃
Storage Temperature Range	T_{STG}	-40~+85	℃
Solder temperature 1.6 mm from body for 3 seconds at 260℃			

OPTICAL-ELECTRICAL CHARACTERISTICS

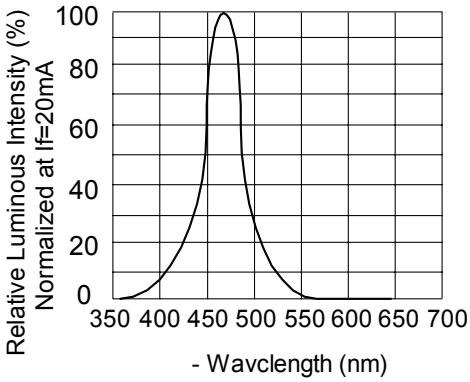
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	I_V	I_F = 20mA	1400	2400		mcd
Forward Voltage	V_F	I_F = 20mA		3.0	3.6	V
Reverse Current	I_R	V_R = 5V			10	uA
Viewing Angle	2 1/2	I_F = 20mA		60		deg.
Peak Wavelength	λ_P	I_F = 20mA		473		nm
Dominant Wavelength	λ_D	I_F = 20mA	460	465	475	nm
Spectrum Radiation Bandwidth	$\triangle\lambda$	I_F = 20mA		30		nm

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

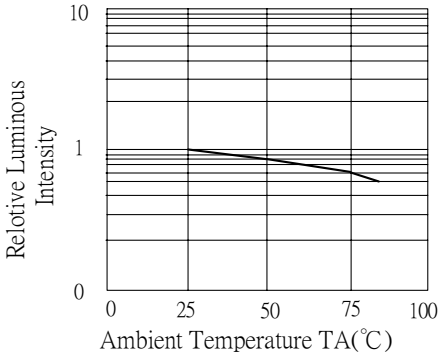
TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



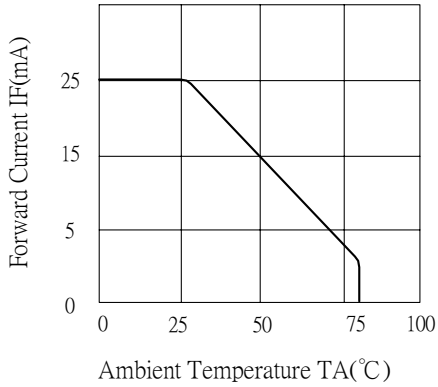
RADIATION DIAGRAM



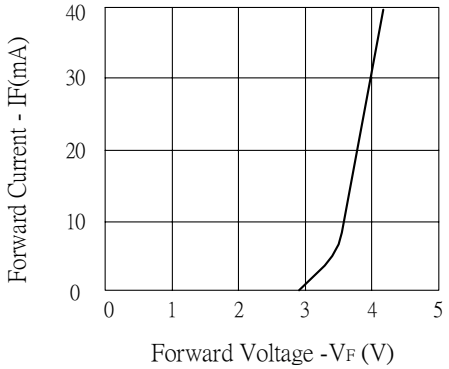
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



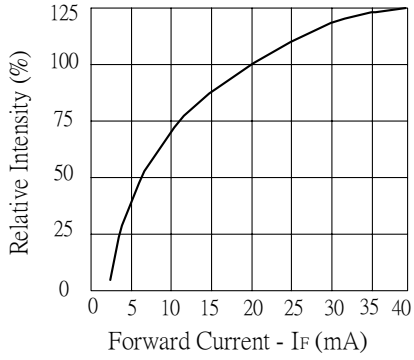
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT