



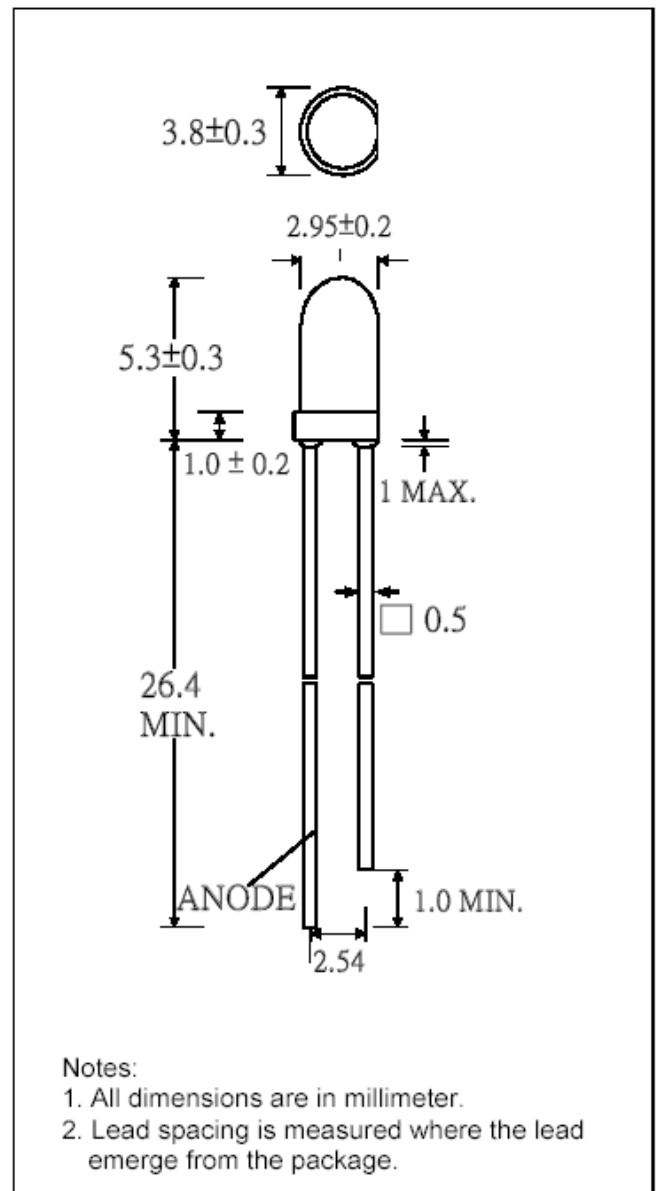
## B3b-443-B505

### DESCRIPTION

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

### FEATURES

- Emitted color: Super Green
- High Luminous intensity
- Technology: InGaN
- Peak wavelength  $\lambda_p = 507\text{nm}$
- Viewing angle:  $15^\circ$



### SELECTION GUIDE

Chip Material	Chip Emitted	Lens Color	Viewing Angle
InGaN	Super Green	Water Clear	$15^\circ$



## 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	$T_{OPR}$	-40~+85	°C
Storage Temperature Range	$T_{STG}$	-40~+100	°C

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

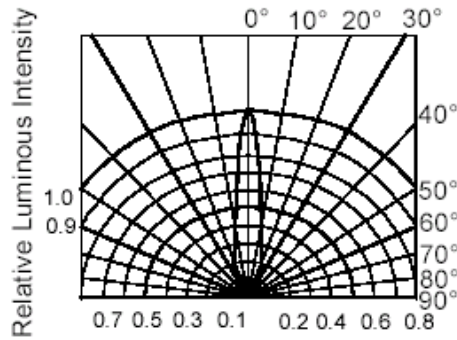
## OPTICAL-ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	$I_V$	$I_F = 20mA$	2800	4000		mcd
Forward Voltage	$V_F$	$I_F = 20mA$		3.5	4.0	V
Reverse Current	$I_R$	$V_R = 5V$			10	uA
Viewing Angle	$2\theta_{1/2}$	$I_F = 20mA$		15		deg.
Peak Wavelength	$\lambda_P$	$I_F = 20mA$		507		nm
Dominant Wavelength	$\lambda_D$	$I_F = 20mA$		505		nm
Spectrum Radiation Bandwidth	$\Delta\lambda$	$I_F = 20mA$		30		nm

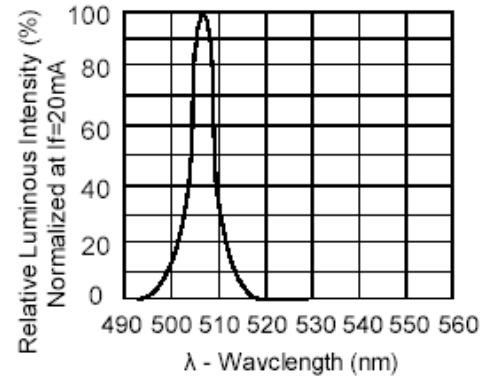
\*Tolerance of Viewing Angle: -10 / +5 deg.



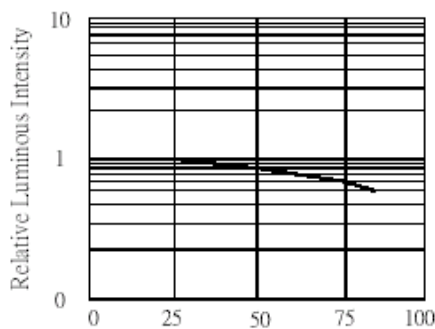
## TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



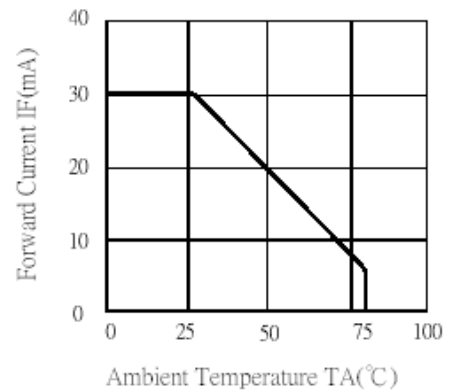
**RADIATION DIAGRAM**



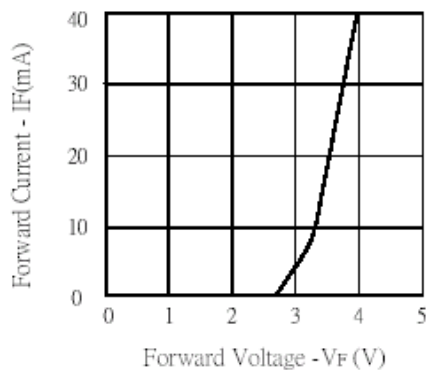
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



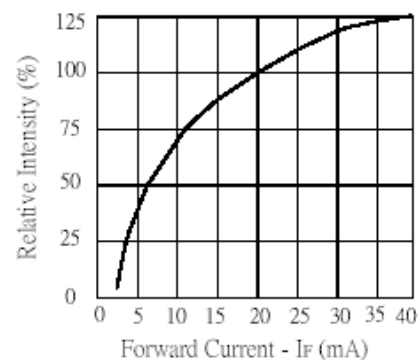
**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**