

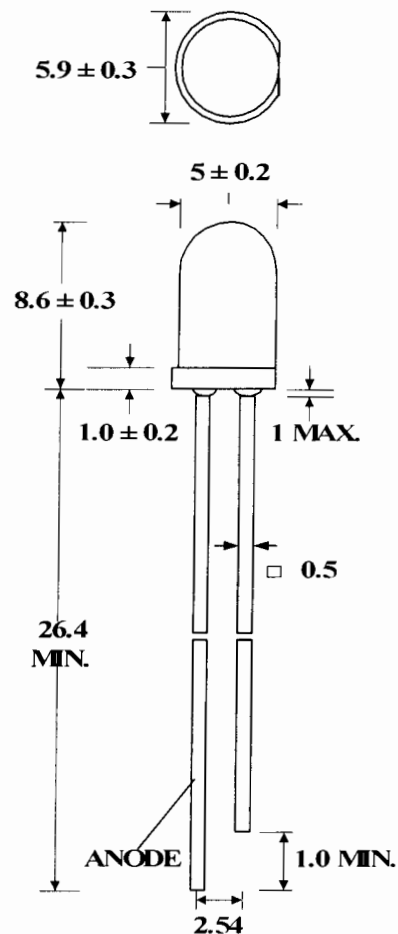
B5-435-30S

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 Amber
- High Luminous intensity
- Technology: AlGaInP
- Peak wavelength $\lambda_p = 610\text{nm}$
- Viewing angle: 15°



Notes:

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

SELECTION GUIDE

Chip Material	Chip Emitted	Lens Color	Viewing Angle
AlGaInP	Super Amber	Water Clear	15°

B5-435-30S
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}	50	mA
Reverse Voltage	V_R	5.0	V
Operating Temperature Range	T_{OPR}	-40~+85	°C
Storage Temperature Range	T_{STG}	-40~+85	°C

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

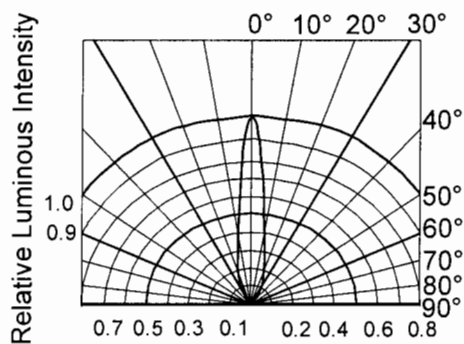
OPTICAL-ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	I_V	$I_F = 20\text{mA}$	2600	4000		mcd
Forward Voltage	V_F	$I_F = 20\text{mA}$		2.0	2.4	V
Reverse Current	I_R	$V_R = 5\text{V}$			10	uA
Viewing Angle	2θ1/2	$I_F = 20\text{mA}$		15		deg.
Peak Wavelength	λ_P	$I_F = 20\text{mA}$		610		nm
Dominant Wavelength	λ_D	$I_F = 20\text{mA}$		605		nm
Spectrum Radiation Bandwidth	$\Delta\lambda$	$I_F = 20\text{mA}$		20		nm

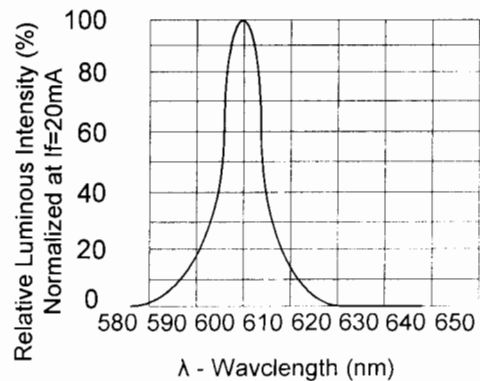
*Tolerance of Viewing Angle: -10 / +5 deg.

B5-435-30S

TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



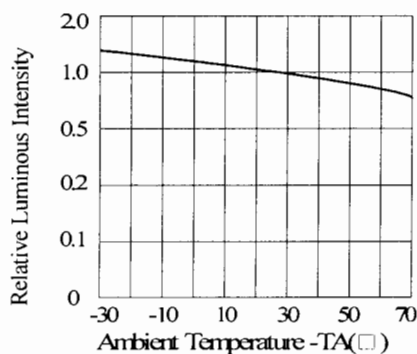
RADIATION DIAGRAM



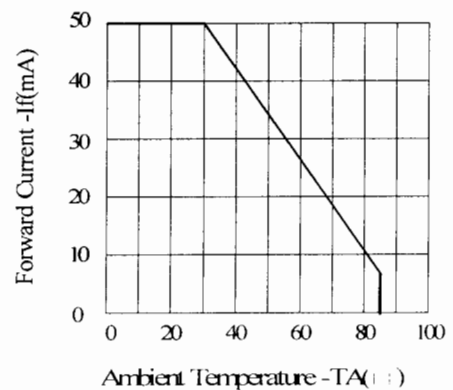
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**RELATIVE LUMINOUS INTENSITY
Vs. WAVELENGTH**

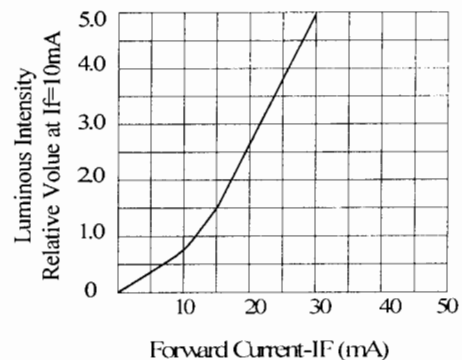
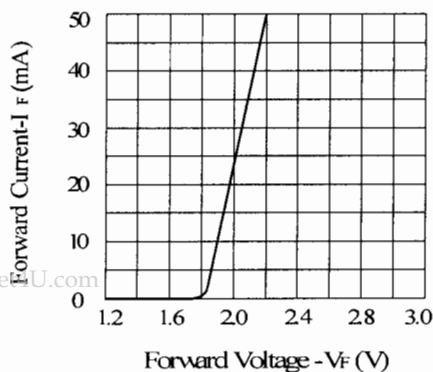


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**LUMINOUS INTENSITY
Vs. AMBIENT TEMPERATURE**

**FORWARD CURRENT
Vs. AMBIENT TEMPERATURE**



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