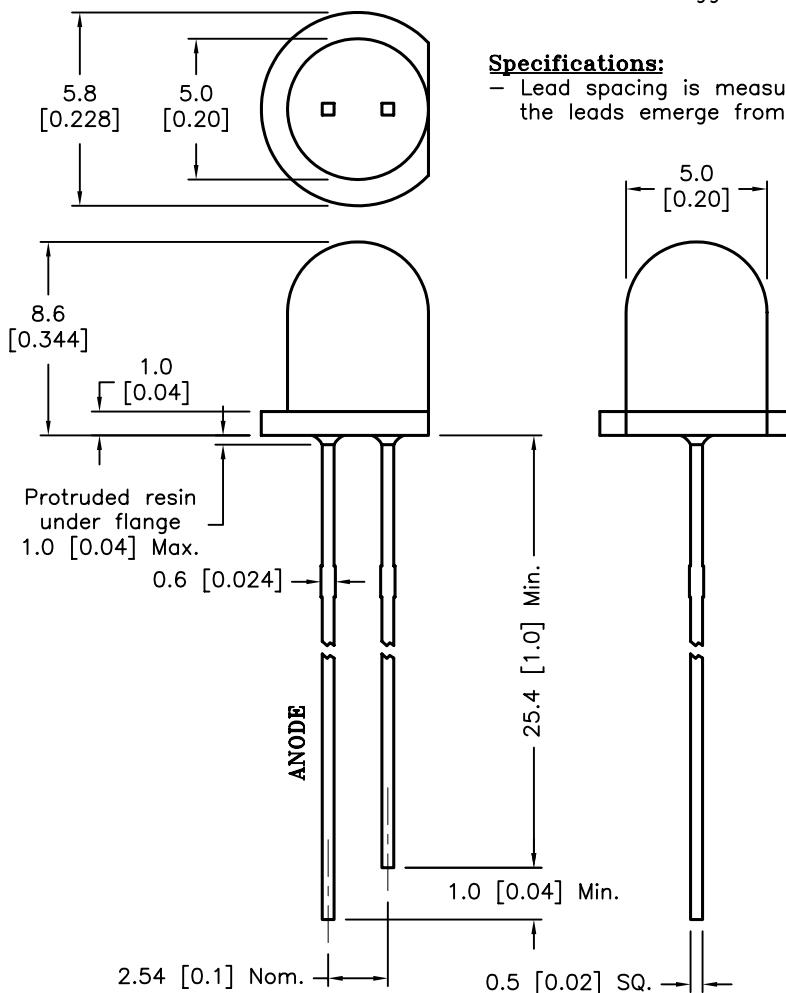


DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1908	A	RELEASED	EO	6/7/06	YA	6/19/06	HO	6/19/06

 RoHS  
Compliant



**Features:**

- High intensity
- Standard T-1 3/4 diameter package
- General purpose LEDs
- Reliable and rugged

**Specifications:**

- Lead spacing is measured where the leads emerge from the package

**Absolute Maximum Rating at Ta=25°C**

Parameters	MAX.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	–25°C to +80°C	
Storage Temperature Range	–40°C to +100°C	
Lead Soldering Temperature [4mm (0.157) From Body]	260°C for 5 seconds	

**Electrical Optical Characteristics at Ta=25°C**

Parameters	Symbol	Min.	Typ.	Max	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>		2500		mcd	I <sub>f</sub> =20mA (Note 1)
Viewing Angle	2θ <sub>1/2</sub>		15		Deg	(Note 2)
Peak Emission Wavelength	λ <sub>p</sub>		620		nm	I <sub>f</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		625		nm	I <sub>f</sub> =20mA (Note 3)
Spectral Line Half-Width	Δλ		25		nm	I <sub>f</sub> =20mA
Forward Voltage	V <sub>f</sub>		2.2	2.6	V	I <sub>f</sub> =20mA
Reverse Current	I <sub>R</sub>	---	---	100	μA	V <sub>R</sub> =5V

**Notes:**

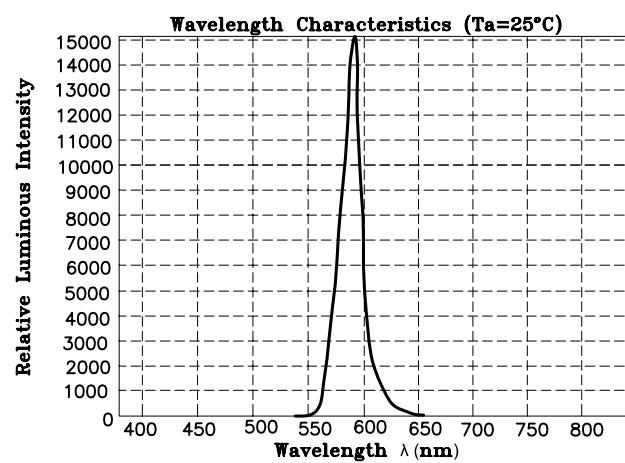
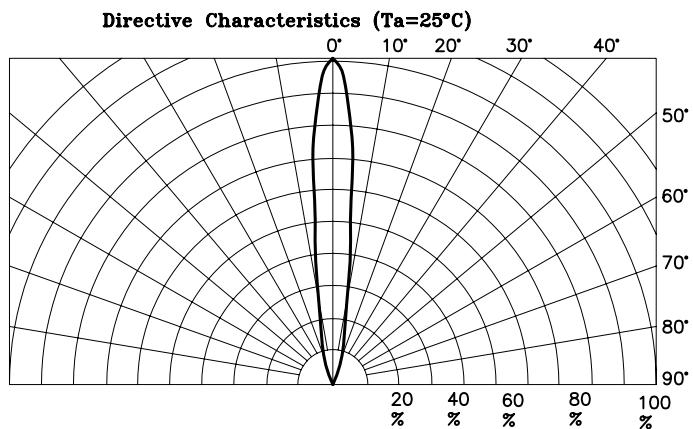
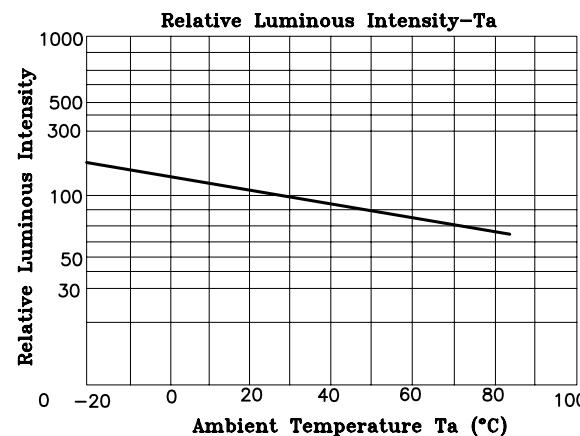
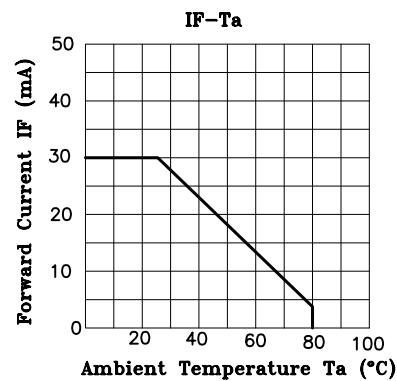
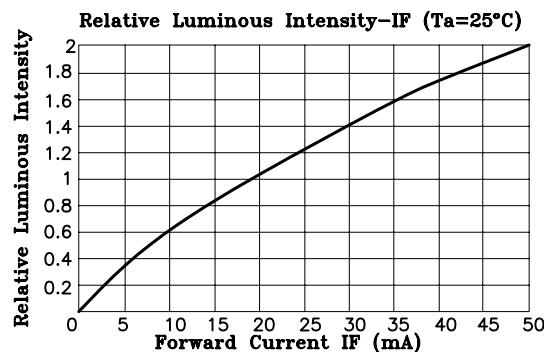
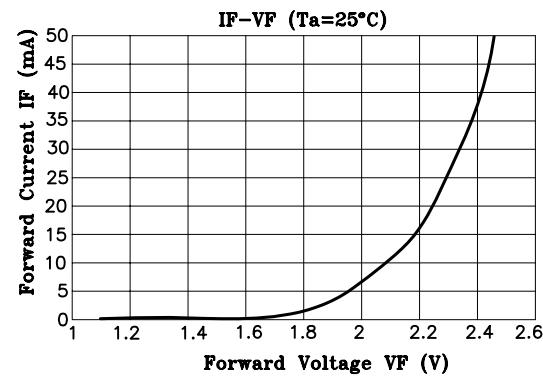
- 1– Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2– θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3– The dominant wavelength (λ<sub>d</sub>) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

**DISCLAIMER:**  
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED  
HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE  
BELIEVE TO BE ACCURATE AND RELIABLE. SINCE  
CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE  
USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT  
FOR THE INTENDED USE AND ASSUME ALL RISK AND  
LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

**TOLERANCES:**  
UNLESS OTHERWISE  
SPECIFIED,  
±0.25 [±0.010]

DRAWN BY:  
EKLAS ODISH 6/7/06  
CHECKED BY:  
YILMAZ AKYONDEM 6/19/06  
APPROVED BY:  
HISHAM ODISH 6/19/06

DRAWING TITLE:  
Super Bright LED, Round Lens, 5mm (T1 3/4), Orange Red Emitting Color  
SIZE DWG. NO. ELECTRONIC FILE REV  
A MC20379 87K7016.DWG A  
SCALE: NTS U.O.M.: mm [INCHES] SHEET: 1 OF 2



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