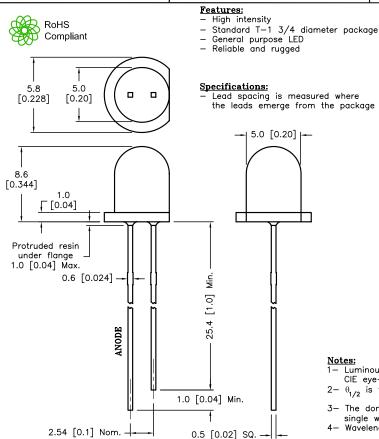


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CDC	FOOE	DWO	

REVISIONS		DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398						
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1908	Α	RELEASED	EO	6/7/06	YA	6/19/06	но	6/19/06



Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	120	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	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 fo	r 5 seconds

Yellow

Source Color Chip Material

AlInGaP

Lens Color

Water Clear

Α

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	I _v		9300		mcd	I _f =20mA (Note 1)
Viewing Angle	2θ _{1/2}		15		Deg	(Note 2)
Peak Emission Wavelength	λр		592		nm	I _f =20mA
Dominant Wavelength	λd		590	595	nm	I _f =20mA (Note 3, 4)
Spectral Line Half-Width	Δλ		25		nm	I _f =20mA
Forward Voltage	V_f		1.9	2.5	V	I _f =20mA
Reverse Current	I _R			100	μΑ	V _R =5V

1— Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye—response curve.

- $2-\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3— The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

4— Wavelength binning can be 589~592nm and 592~595nm.

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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 INTENDEO USE AND ASSUME ALL RISK AND
LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

DATE: DRAWING TITLE: Super Bright LED, Round Lens, 5mm (T1 3/4), Yellow Emitting Color 6/7/06 DATE: DWG. NO. ELECTRONIC FILE 87K7021.DWG 6/19/06 MC20384 DATE: SCALE: U.O.M.: mm [INCHES] SHEET: 1 OF 2 6/19/06

