

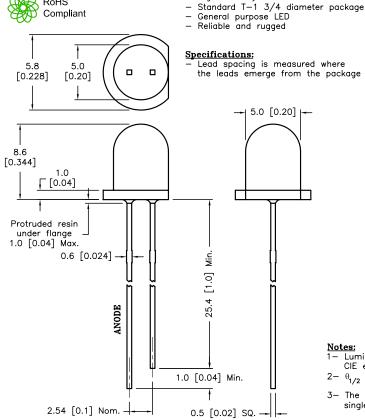
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SPC-F005.DWG Features: High intensity

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ı,	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	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 fo	r 5 seconds

Red

Source Color Chip Material

AlGaAs

Lens Color

Water Clear

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	I _v		800		mcd	I _f =20mA (Note 1)
Viewing Angle	2θ _{1/2}		12		Deg	(Note 2)
Peak Emission Wavelength	λр		660		nm	I _f =20mA
Dominant Wavelength	λd		645		nm	I_f =20mA (Note 3)
Spectral Line Half-Width	Δλ		25		nm	I _f =20mA
Forward Voltage	V_{f}		2.0	2.5	٧	I _f =20mA
Reverse Current	I _R			100	μΑ	V _R =5V

Notes:

- 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.

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.

UNLESS OTHERWISE SPECIFIED, ±0.25 [±0.010]

TOLERANCES:

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

SCALE:

DRAWING TITLE: Super Bright LED, Round Lens, 5mm (T1 3/4), Red Emitting Color DWG. NO.

NTS

MV8112

U.O.M.: mm [INCHES]

ELECTRONIC FILE 87K7118.DWG

> SHEET: 1 OF 2

REV

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