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SPC-F005.DWG	

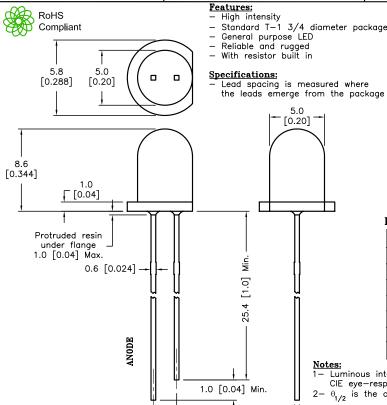
REVISIONS			DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1908	Α	RELEASED	EO	6/7/06	YA	6/19/06	но	6/19/06

Source Color Chip Material

AlGaAs

Lens Color

Red Diffused



## 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	٧
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

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>		30		mcd	I <sub>f</sub> =20mA (Note 1)
Viewing Angle	2θ <sub>1/2</sub>		60		Deg	(Note 2)
Peak Emission Wavelength	λр		625		nm	I <sub>f</sub> =20mA
Dominant Wavelength	λd		630		nm	I <sub>f</sub> =20mA (Note 3)
Spectral Line Half-Width	Δλ		25		nm	I <sub>f</sub> =20mA
Forward Voltage	$V_{f}$		2.0	2.5	>	I <sub>f</sub> =20mA
Reverse Current	I <sub>R</sub>			100	μΑ	V <sub>R</sub> =5V

- $2-\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3— The dominant wavelength ( $\lambda d$ ) 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 SUITABLITY OF THE PRODUCT
FOR THE INTENDED USE AND ASSUME ALL RISK AND
LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

2.54 [0.1] Nom.

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

0.5 [0.02] SQ. -

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

DRAWING TITLE: Standard LED With 5 Resistor, Round Lens, 5mm (T1 3/4), Red DWG. NO. SIZE SCALE: NTS

MC20426

U.O.M.: mm [INCHES]

ELECTRONIC FILE 87K7060.DWG

> SHEET: 1 OF 2

REV

Α

