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SPC-F005.DWG

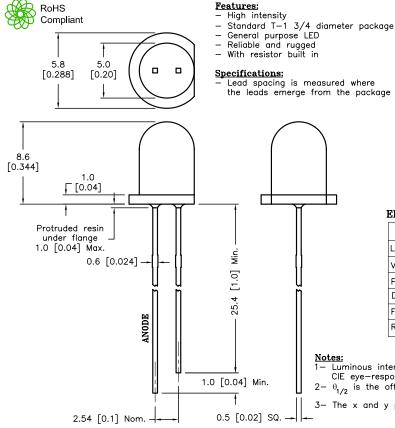
REVISIONS			DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1908	Α	RELEASED	EO	6/7/06	YA	6/19/06	но	6/19/06

Source Color Chip Material

AlGaAs

Lens Color

Diffused Yellow



Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit				
Power Dissipation	100	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

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	I _v		20		mcd	I _f =20mA (Note 1)
Viewing Angle	2θ _{1/2}		60		Deg	(Note 2)
Peak Emission Wavelength	λр		590		nm	I_f =20mA
Dominant Wavelength	λd		585		nm	I_f =20mA (Note 3)
Forward Voltage	V_{f}		2.0	2.5	>	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 x and y parameters correspond to the CIE 1931 Chromaticity

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

DRAWING TITLE: SCALE:

Standard LED With 12V Resistor, Round Lens, 5mm (T1 3/4), Yellow DWG. NO. MC20421

U.O.M.: mm [INCHES]

ELECTRONIC FILE 87K7055.DWG

SHEET: 1 OF 2

REV

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