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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

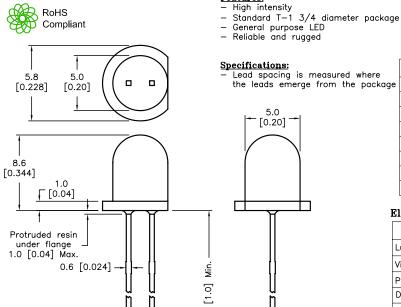
Green

Source Color Chip Material

InGaN/SiC

Lens Color

Water Clear



Features:

- Reliable and rugged

5.0 [0.20]

## 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	

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	Ιν		2500		mcd	I <sub>f</sub> =20mA (Note 1)
Viewing Angle	2θ <sub>1/2</sub>		25		Deg	(Note 2)
Peak Emission Wavelength	λр		525		nm	I <sub>f</sub> =20mA
Dominant Wavelength	λd		527		nm	I <sub>f</sub> =20mA (Note 3)
Spectral Line Half-Width	Δλ		20		nm	I <sub>f</sub> =20mA
Forward Voltage	V <sub>f</sub>		3.5	4.0	٧	I <sub>f</sub> =20mA
Reverse Current	$\mathbf{I}_{R}$			50	μА	V <sub>R</sub> =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 ( $\lambda$ 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.

UNLESS OTHERWISE SPECIFIED. ±0.25 [±0.010]

1.0 [0.04] Min.

0.5 [0.02] SQ. -TOLERANCES:

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

DRAWING TITLE: Super Bright LED, Round Lens, 5mm (T1 3/4), Green Emitting Color SIZE DWG. NO. ELECTRONIC FILE MC20366 87K7005.DWG Α SCALE: NTS U.O.M.: mm [INCHES] SHEET: 1 OF 2

