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SPC-F005.DWG

Features:- High intensity

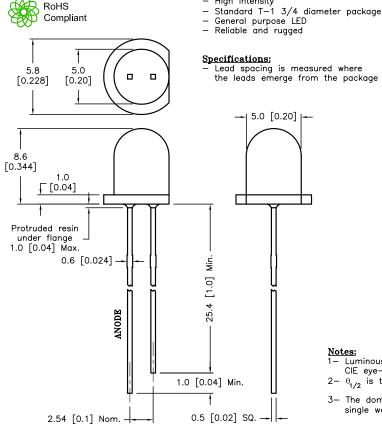
REVISIONS			DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1908	Α	RELEASED	EO	6/7/06	YA	6/19/06	но	6/19/06

Source Color Chip Material

InGaN/SiC

Lens Color

Water Clear



Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	76	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	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

Blue

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	Ιν	700	900		mcd	I _f =20mA (Note 1)
Viewing Angle	2θ _{1/2}		30		Deg	(Note 2)
Peak Emission Wavelength	λр		468		nm	I_f =20mA
Dominant Wavelength	λd		470		nm	I_f =20mA (Note 3)
Spectral Line Half-Width	Δλ	15	20	25	nm	I _f =20mA
Forward Voltage	V_{f}		3.8	4.0	V	I _f =20mA
Reverse Current	I_R			50	μА	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.

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED
HERRIN 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: 6/7/06 EKLAS ODISH CHECKED BY: DATE: YILMAZ AKYONDEM 6/19/06 APPROVED BY: DATE: HISHAM ODISH 6/19/06

DRAWING TITLE: Super Bright LED, Round Lens, 5mm (T1 3/4), Blue Emitting Color SI7F DWG. NO. SCALE: NTS

MC20354 U.O.M.: mm [INCHES]

ELECTRONIC FILE 87K6993.DWG

SHEET: 1 OF 2

RFV

Α

