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REVISIONS				DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398						
DCP #	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

Diffused



3.85

[0.152] [0.118]

3.0

RoHS Compliant

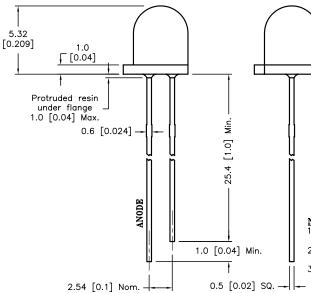
<u>Feature</u>

SPC-F005.DWG

- High intensity Standard T—1 diameter package
- General purpose LED
- Reliable and rugged

Spe	ecific	ations
		coacin

Lead spacing is measured where the leads emerge from the package



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	30	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

Blue

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	Ιν		20		mcd	I _f =20mA (Note 1)
Viewing Angle	2θ _{1/2}		45		Deg	(Note 2)
Peak Emission Wavelength	λр		460		nm	I _f =20mA
Dominant Wavelength	λd		430		nm	I _f =20mA (Note 3)
Spectral Line Half-Width	Δλ		25		nm	I _f =20mA
Forward Voltage	V _f		3.5	4.2	٧	I _f =20mA
Reverse Current	\mathbf{I}_{R}			100	μΑ	V _R =5V

- 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 SUITABLITY 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:		ING TITLE:					
EKLAS ODISH	6/7/06	Standard LED, Round Lens, 3mm (T1), Blue Emitting Color						
CHECKED BY:	DATE:	SIZE	DWG. NO.		ELEC.	TRONIC FILE	REV	
YILMAZ AKYONDEM	6/19/06	A			87K7090.DWG A			
APPROVED BY:	DATE:							
HISHAM ODISH	6/19/06	SCAL	E: NTS	U.O.M.: mm [INCHES]		SHEET: 1 OF	- 2	

