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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	A	RELEASED	EO	6/7/06	YA	6/19/06	HO	6/19/06



RoHS Compliant

**Features:**

- High intensity
- Standard T-1 3/4 diameter package
- General purpose LED
- Reliable and rugged

**Specifications:**

- Lead spacing is measured where the leads emerge from the package

Source Color	Chip Material	Lens Color
White	InGaN	Water Clear

**Absolute Maximum Rating at Ta=25°C**

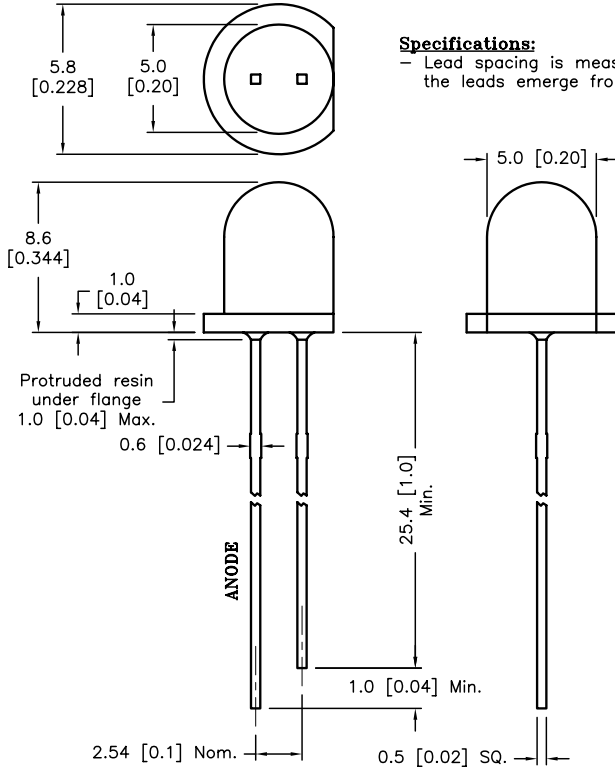
Parameter	MAX.	Unit
Power Dissipation	120	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-25°C to +80°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature [4mm (0.157) From Body]	260°C for 5 seconds	

**Electrical Optical Characteristics at Ta=25°C**

Parameter	Symbol	Min.	Typ.	Max	Unit	Test Condition
Luminous Intensity	$I_v$	5000	7500		mcd	$I_f=20\text{mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$		20		Deg	(Note 2)
x, y Coordinates (CIE 1931 2°)	x		0.31	---	---	$I_f=20\text{mA}$ (Note 3)
	y		0.29	---	---	$I_f=20\text{mA}$ (Note 3)
Forward Voltage	$V_f$		3.2	4.0	V	$I_f=20\text{mA}$
Reverse Current	$I_R$	---	---	100	$\mu\text{A}$	$V_R=5\text{V}$

**Notes:**

- 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



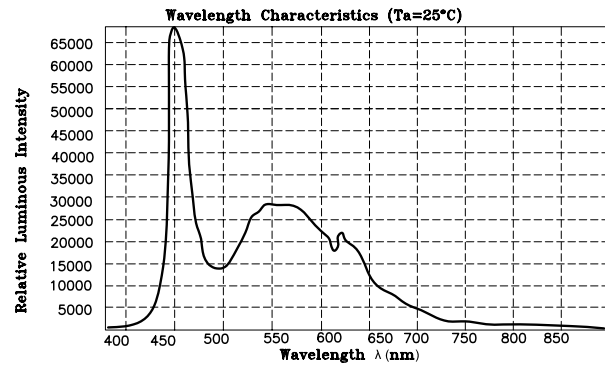
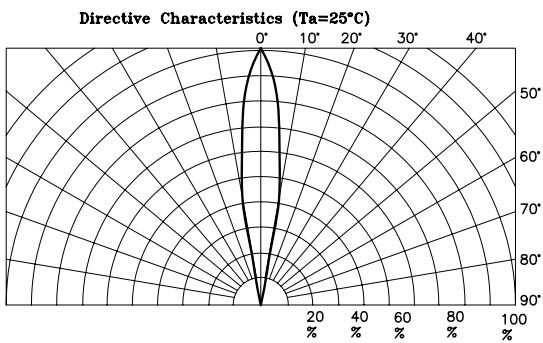
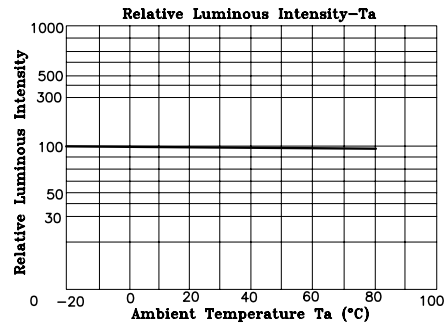
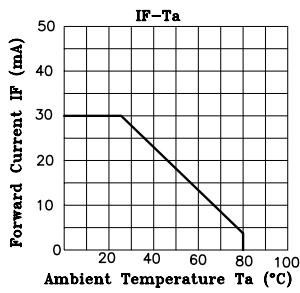
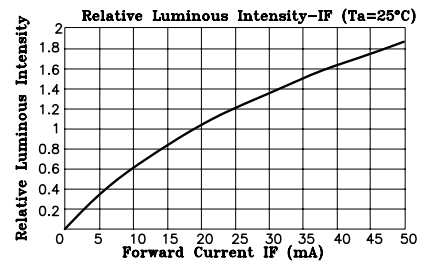
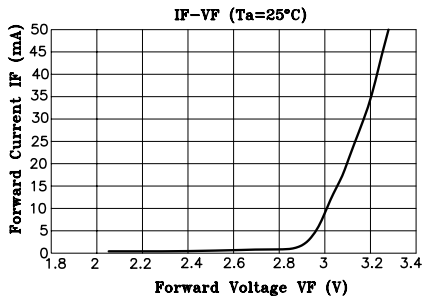
**TOLERANCES:**

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:			
Super Bright LED, Round Lens, 5mm (T1 3/4), White Emitting Color			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC20358	87K6997.DWG	A
SCALE: NTS	U.O.M.: mm [INCHES]	SHEET: 1 OF 2	

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SHEET: 2 OF 2