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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

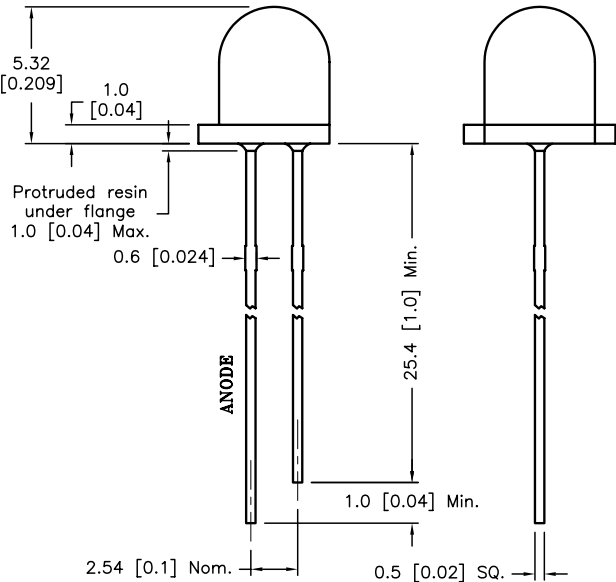
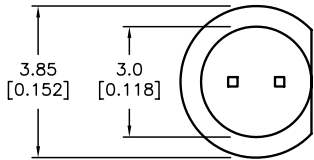


**Features:**

- ¼ duty cycle
- Standard (T1) ¾ diameter package
- Frequency tolerance: ±20%
- Operating voltage range: 1.35V~5.00VDC

**Specifications:**

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



Source Color	Chip Material	Lens Color
Yellow Green	GaP	Green Diffused

**Blinking Frequency VS. External Part Value**

Product Type	Frequency	Output Type	Duty Cycle
N/A	1.5Hz	Sink	1/4

**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	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 for 5 seconds	

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

Parameter	Symbol	Min.	Typ.	Max	Unit	Test Condition
Peak Emission Wavelength	$\lambda_p$		570		nm	$I_f=20mA$
Dominant Wavelength	$\lambda_d$		568		nm	$I_f=20mA$ (Note 3)
Spectral Line Half-Width	$\Delta\lambda$		20		nm	$I_f=20mA$
Viewing Angle	$2\theta_{1/2}$	---	60	---	Deg	VDD=3V
Operating Voltage	$V_{dd}$	1.3		5	V	$I_f=20mA$
Reverse Current	$I_R$	---	---	100	$\mu A$	$V_R=5V$

**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 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 THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY 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:
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CHECKED BY:	DATE:
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APPROVED BY:	DATE:
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DRAWING TITLE: <b>Blinking LED, Round Lens, 3mm (T1), Yellow Green Colour Emitting Color</b>			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC20399	87K7035.DWG	A
SCALE: NTS	U.O.M.: mm [INCHES]	SHEET: 1 OF 1	