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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:

- 1/4 duty cycle
- Standard (T1 3/4) diameter package
- Frequency tolerance: ±20%
- Operating voltage range: 1.35V~5.00VDC

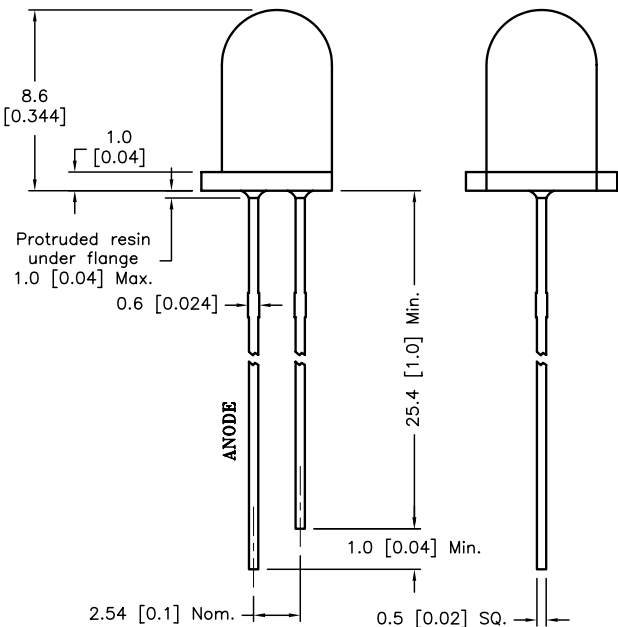
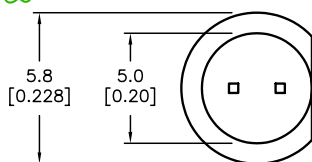
Specifications:

- 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	λ_p		570		nm	$I_f=20mA$
Dominant Wavelength	λ_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	μA	$V_R=5V$

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 (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

DISCLAIMER:
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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: Blinking LED, Round Lens, 5mm (T1 3/4), Yellow Green Colour Emitting Color			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC20420	87K7054.DWG	A
SCALE: NTS	U.O.M.: mm [INCHES]	SHEET: 1 OF 1	