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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



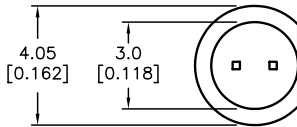
Features:

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

Source Color	Chip Material	Lens Color
Yellow Green	GaP	White Diffused
Yellow	GaAsP	

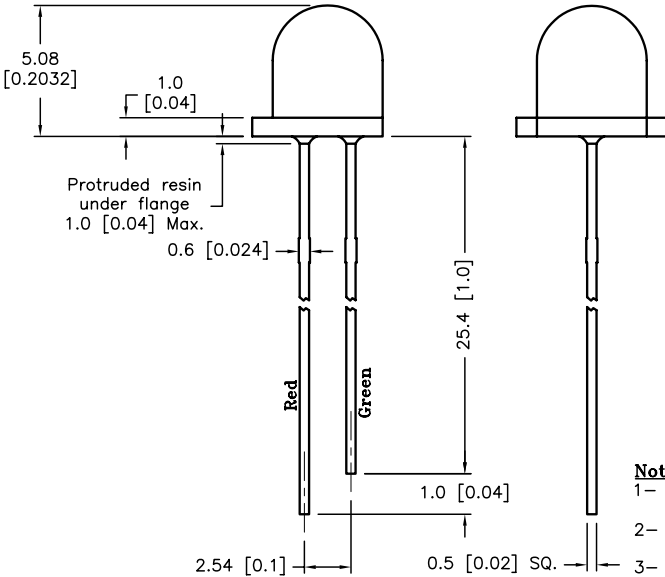
Specifications:

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



Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	100	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	Colour	Typ.	Max	Unit	Test Condition
Luminous Intensity	I _v	YG	20	---	mcd	I _f =20mA (Note 1)
		Yellow	30	---		
Viewing Angle	2θ _{1/2}	---	60	---	Deg	(Note 2)
Dominant Wavelength	λ _d	YG	568	574	nm	I _f =20mA (Note 3)
		Yellow	585	590		
Spectral Line Half-Width	Δλ	---	20	25	nm	I _f =20mA
Forward Voltage	V _f	YG	1.8	2.4	V	I _f =20mA
		Yellow	1.9	2.5		
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- θ_{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:
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 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:
EKLAS ODISH	6/7/06
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APPROVED BY:	DATE:
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DRAWING TITLE: Bi-color LED, Round Lens, 3mm (T1), Yellow Green/Yellow			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC20392	87K7029.DWG	A
SCALE: NTS	U.O.M.: mm [INCHES]	SHEET: 1 OF 1	