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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



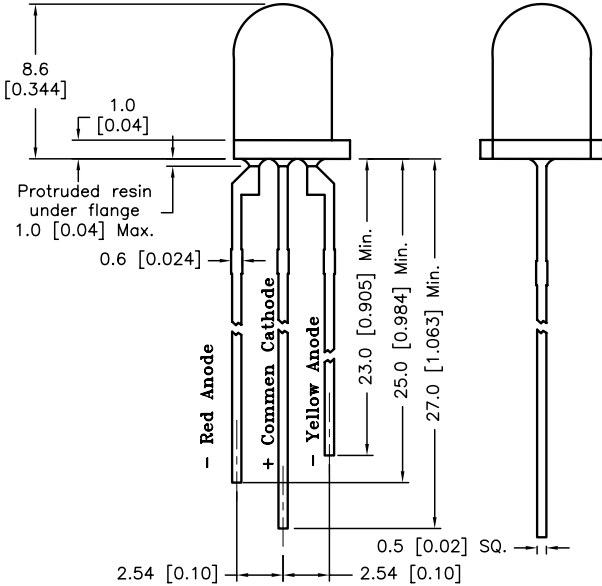
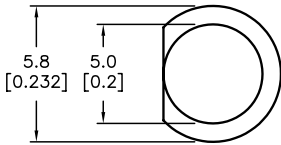
RoHS Compliant

Feature

- High Reliability
- Standard T-1 3/4 diameter package
- General Radiant Intensity
- Reliable and rugged

Specifications:

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



Source Color	Chip Material	Lens Color
Yellow Green	GaP	Milky Diffused
Red	AlGaAs	

Absolute Maximum Rating at Ta=25°C

Parameter	MAX.		Unit
	Red	YG	
Power Dissipation	100	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	100	mA
Continuous Forward Current	30	30	mA
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	Red	20	---	mcd	$I_f=20mA$ (Note 1)
		YG	15	---		
Viewing Angle	$2\theta_{1/2}$	---	100	---	Deg	(Note 2)
Peak Emission Wavelength	λ_P	Red	660	---	nm	$I_f=20mA$
		YG	570	---		
Dominant Emission Wavelength	λ_d	Red	645	---	nm	$I_f=20mA$
		YG	568	---		
Spectral Line Half-Width	$\Delta\lambda$	---	25	---	nm	$I_f=20mA$
Forward Voltage	V_f	Red	1.85	---	V	$I_f=20mA$
		YG	1.9	---		
Reverse Current	I_R	Red	---	100	μA	$V_R=5V$
		YG	---	100		

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: 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, 5mm (T1 3/4), Yellow Green/Red, w/ Common Anode			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MV5439A	87K7096.DWG	A
SCALE: NTS	U.O.M.: mm [INCHES]	SHEET: 1 OF 1	