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

Specifications:

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

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

Absolute Maximum Rating at Ta=25°C

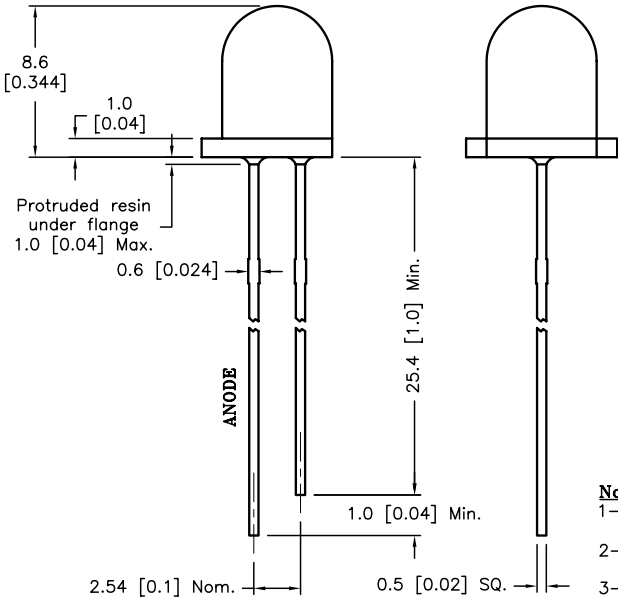
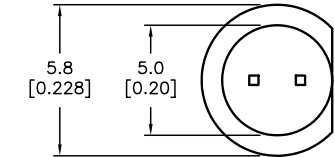
Parameter	MAX.		Unit
	Red	Yellow Green	
Power Dissipation	100	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	100	mA
Continuous Forward Current	30	30	mA
Reverse Voltage	5		V
Operating Temperature Range	-25°C to +80°C		
Storage Temperature Range	-40°C to +100°C		
Lead Soldering Temperature [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	30	---	mcd	I _f =20mA (Note 1)
		YG	20	---		
Viewing Angle	2θ _{1/2}	---	60	---	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	Δλ	---	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- 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:
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DRAWING TITLE:

Bi-color LED, Round Lens, 5mm (T1 3/4), Red /Yellow Green Emitting Color

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MV5491A	87K7100.DWG	A
SCALE: NTS	U.O.M.: mm [INCHES]	SHEET: 1 OF 1	