

RoHS

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1908	Α	RELEASED	EO	6/7/06	YA	6/19/06	НО	6/19/06

SPC-F005.DWG

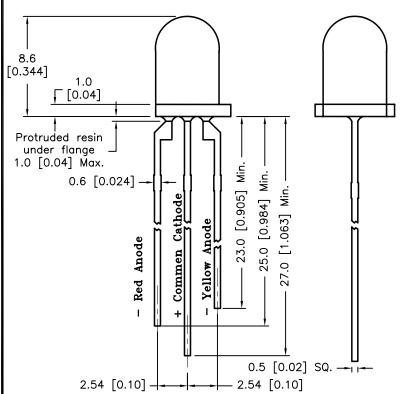
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Feature

- 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	Millar Diffused
Red	AlGaAs	Milky Diffused
 OFAC		

Absolute Maximum Rating at Ta=25°C

	M	AX.	
Parameter	Red	YG	Unit
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 fc	r 5 seconds

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Colour	Тур.	Max	Unit	Test Condition
Luminous Intensity	I _v	Red	20		mcd	d I _f =20mA (Note 1)
Laminous intensity		YG	15		micd I _f =20mA (Note 1)	
Viewing Angle	2θ _{1/2}		100		Deg	(Note 2)
Peak Emission Wavelength	λP	Red	660		nm	I _f =20mA
r car. Emilionem mavelength	/01	YG	570		11111	
Dominant Emission Wavelength	λd	Red	645		nm	I - 20 A
Dominant Emission wavelength	, Au	YG	568		nm	I _f =20mA
Spectral Line Half—Width	Δλ		25		nm	I _f =20mA
Forward Voltage	V _t Red 1.85 V	I - 20 A				
Torward voitage	V _f	YG	1.9		\ \ \	I _f =20mA
Reverse Current	т	Red 100 μA V _P =5V	V _R =5V			
	I _R	YG		100	μπ	v _R —Jv

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

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UNLESS OTHERWISE SPECIFIED, ±0.25 [±0.010]

TOLERANCES:

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:

Bi-color LED, Round Lens, 5mm (T1 3/4), Yellow Green/Red, w/ Commen Anode

SIZE DWG. NO. MV5439A ELECTRONIC FILE 87K7096.DWG

SCALE: NTS U.O.M.: mm [INCHES]

SHEET: 1 OF 1

REV