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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	Α	RELEASED	EO	6/7/06	YA	6/19/06	но	6/19/06	
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Yellow Green

Yellow

Source Color Chip Material

GaP

AlGaAs

Lens Color

Milky Diffused



5.0

[0.20]

[0.228]

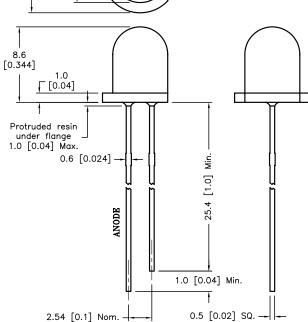
- Features:

 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



Absolute Maximum Rating at Ta=25°C

D		Unit		
Parameter	Yellow	Yellow Green	Offili	
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			
Operating Temperature Range	-25°C to +80°C			
Storage Temperature Range	-40°C to +100°C			
Lead Soldering Temperature [4mm (0.157) From Body]	20	60°C for 5 sec	onds	

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Colour	Тур.	Max	Unit	Test Condition	
Luminous Intensity	I _v	YG	25			I _f =20mA (Note 1)	
Luminous intensity		Yellow	30		mcd		
Viewing Angle	^{2θ} 1/2		60		Deg	(Note 2)	
Peak Emission Wavelength	λР	YG	590		nm	I _f =20mA	
		Yellow	570		11111		
Dominant Emission Wavelength	λd	YG	585		nm	I _f =20mA	
Borninanc Ermssion Wavelength		Yellow	568		11111		
Spectral Line Half—Width	Δλ		25		nm	I_f =20mA	
Forward Voltage	V _f	YG	1.85		V	I _f =20mA	
Torward voltage		Yellow	1.9		V		
Reverse Current	I _R	YG		100	μА	V _R =5V	
		Yellow		100	μΑ		

- 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 (λd) 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 SUITABLITY 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:		ING TITLE:					
EKLAS ODISH 6/7/06		Bi-	color LED,	Round	Lens, 5mm (T1 3	/4), Y	rellow Green/Ye	llow
CHECKED BY:	DATE:	SIZE	DWG. NO.			ELEC	TRONIC FILE	REV
YILMAZ AKYONDEM	6/19/06	A		MC2	20413	87	7K7047.DWG	lΑ
APPROVED BY: DATE		<u> </u>						
HISHAM ODISH	6/19/06	SCAL	E: NTS		U.O.M.: mm [INCHES	[]	SHEET: 1 0	F 1