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SPC-F005.DWG

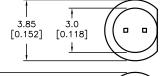
N.	REVISIONS			DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398						
	DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
	1908	Α	RELEASED	EO	6/7/06	YA	6/19/06	НО	6/19/06	



Features:

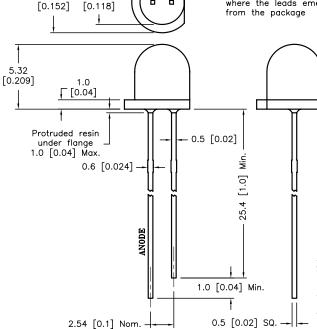
- High intensityStandard T-1 diameter package
- General purpose LED
 Reliable and rugged

Source	Color	Chip	Material	Lens	Color
Red		G	aAsP	Diffu	sed



Specifications:

Lead spacing is measured where the leads emerge



Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit	
Power Dissipation	80	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 fo	r 5 seconds	

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	lax Unit Test Condi	
Luminous Intensity	Ιν		35		mcd	I _f =20mA (Note 1)
Viewing Angle	2θ _{1/2}		65		Deg	(Note 2)
Peak Emission Wavelength	λр		660		nm	I _f =20mA
Dominant Wavelength	λd		645		nm	I _f =20mA (Note 3)
Spectral Line Half-Width	Δλ		25		nm	I _f =20mA
Forward Voltage	V_{f}		1.9	2.5	>	I _f =20mA
Reverse Current	I_R			100	μΑ	V _R =5V

- 1— Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$ 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
HERRIN 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: 6/7/06 EKLAS ODISH CHECKED BY: DATE: YILMAZ AKYONDEM 6/19/06 APPROVED BY: DATE: HISHAM ODISH 6/19/06 DRAWING TITLE: Standard LED, Round Lens, 3mm (T1), Red Emitting Color

NTS

SCALE:

DWG. NO. HLMPK101

U.O.M.: mm [INCHES]

ELECTRONIC FILE 87K6971.DWG

> SHEET: 1 OF 2

RFV

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