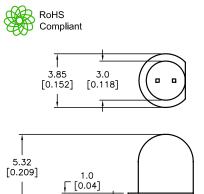


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SPC-F005.DWG

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



Features:

- High intensity
 Standard T-1 diameter package
 General purpose LED
- Reliable and rugged Resistor built—in

Specifications:

Lead spacing is measured where the leads emerge from the package

'	Continuous Forwar	d Current			
	Derating Linear Fr	om 50°C			
	Reverse Voltage				
5.32	Operating Tempera	ture Range			
[0.209] 1.0	Storage Temperatu	re Range			
[0.04]	Lead Soldering Tel	nperature [4mm	n (0.157)	From	Body
· · · · · ·	Electrical Optica	l Characteri	stics at	Ta=2	25°C
Protruded resin under flange	0.5 [0.02] Parameter	Symbol	Min.	Тур.	М
1.0 [0.04] Max.	Luminous Intensity	I _v		30	
0.6 [0.024] []	Viewing Angle Peak Emission Wave	2θ _{1/2}		60	
U U	Peak Emission Wave	length λp		568	
n n	Dominant Wavelength	n λd		565	
	Forward Voltage	V _f		2.0	2.
	Reverse Current	I _R			100
2.54 [0.1] Nom		ich the luminou	us intensit	ty is ha	ılf tł

Absolute Maximum Rating at Ta=25°C

Parameter	MAX.	Unit			
Power Dissipation	100	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	٧			
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			

Pure Green

Source Color Chip Material

GaP

Lens Color

Green Diffused

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max	Unit	Test Condition
Luminous Intensity	Ι _ν		30		mcd	I _f =20mA (Note 1)
Viewing Angle	2θ _{1/2}		60		Deg	(Note 2)
Peak Emission Wavelength	λр		568		nm	I _f =20mA
Dominant Wavelength	λd		565		nm	I_f =20mA (Note 3)
Forward Voltage	V _f		2.0	2.5	V	I _f =20mA
Reverse Current	\mathbf{I}_{R}			100	μΑ	V _R =5V

- 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

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.

UNLESS OTHERWISE SPECIFIED, ±0.25 [±0.010]

TOLERANCES:

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, With 12V Resistor, Round Lens, 3mm (T1), Pure Green DWG. NO.

NTS

SCALE:

MC20395

U.O.M.: mm [INCHES]

ELECTRONIC FILE 87K7032.DWG

> SHEET: 1 OF 2

RFV

Α

