

ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.

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

Source Color

Yellow

Chip Material

GaAsP

Lens Color

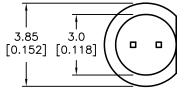
Yellow Diffused

SPC-F005.DWG

Compliant Compliant		RoHS Compliant
---------------------	--	-------------------

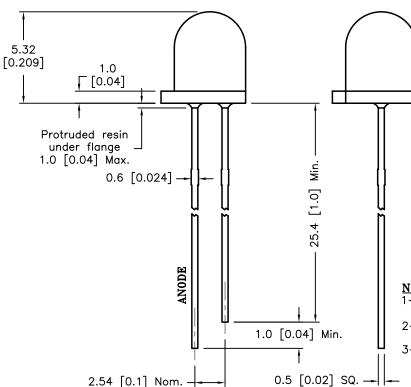
Features:

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



Specifications:

 Lead spacing is measured where the leads emerge from the package



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	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	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		590		nm	I _f =20mA
Dominant Wavelength	λd		585		nm	I _f =20mA (Note 3)
Forward Voltage	V_{f}		2.0	2.5	٧	I _f =20mA
Reverse Current	\mathbf{I}_{R}			100	μΑ	V _R =5V

Votes:

- 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 x and y parameters correspond to the CIE 1931 Chromaticity

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:
EKLAS ODISH	6/7/06
CHECKED BY:	DATE:
YILMAZ AKYONDEM	6/19/06
APPROVED BY:	DATE:
HISHAM ODISH	6/19/06

DRAWING TITLE:

Standard LED With 5V Resistor, Round Lens, 3mm (T1), Yellow

SIZE DWG. NO.

SCALE: NTS

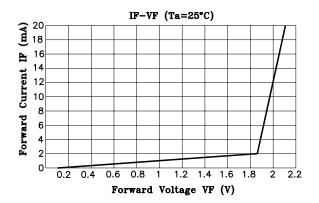
MC20402 87K7038.DWG

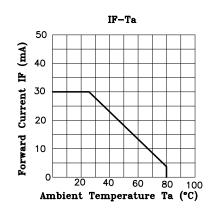
U.O.M.: mm [INCHES]

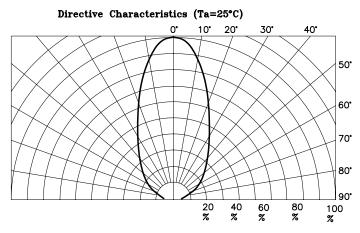
SHEET: 1 OF 2

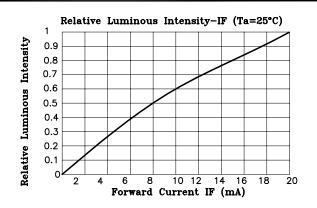
REV

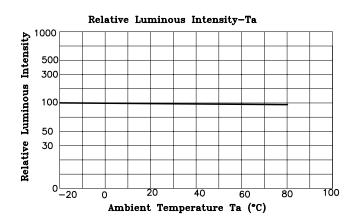
ELECTRONIC FILE

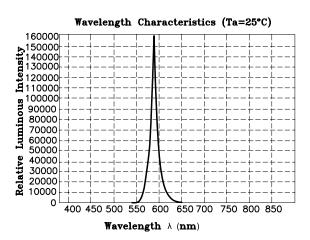












ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN	WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE		DWG. NO.		ELECTRONIC FILE		REV
EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.	WHOLE ON IN FART CAN BE REPRODUCED WITHOUT THE	A	Mc2	20402	87	K7038.DWG	Α
SPC-F005.DWG	DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398	SCALE	E: NTS	U.O.M.: mm [INCHES	5]	SHEET: 2 OF	- 2