



SPC
TECHNOLOGY

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SPC-F005.DWG

REVISIONS

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
			AMU	23-08-10	JAG	28-08-10	XXX	01-09-10

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

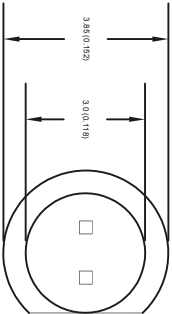
Source Color	Chip Material	Lens Color
Yellow	GaAsP	Diffused



- Features:
- High intensity
 - Standard T-1 diameter package
 - General purpose LED
 - Reliable and rugged

Specifications:

- Lead spacing is measures where the leads emerge from the package



Absolute Maximum Rating at Ta=25°C

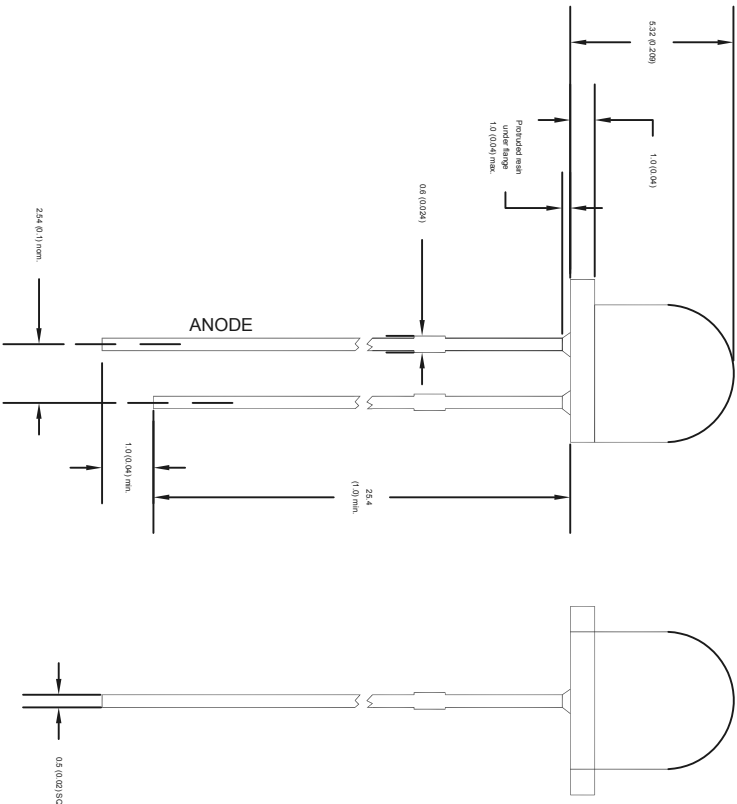
Parameter	Max	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-25°C to +80°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature (4mm (0.157) From Body)	260°C for 5 seconds	

Electrical - Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max	Unit	Test Condition
Luminous Intensity	I_v	20			Unit	mod $I_f=20mA$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	90			Deg	(Note 2)
Peak Emission Wavelength	λ_p	590			nm	$I_f=20mA$
Dominant Wavelength	λ_d	585			nm	$I_f=20mA$ (Note 3)
Spectral Line Half-Width	$\Delta\lambda$	25			nm	$I_f=20mA$
Forward Voltage	V_f	1.9	2.5		V	$I_f=20mA$
Reverse Current	I_R	---	---	100	μA	$V_R=5V$

Note:

- 1 - Luminous intensity is measures 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 (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.



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DRAWN BY:

DATE:

DRAWING TITLE:

Standard LED, Round Lens, 3mm (T1), Yellow Emitting Color

CHECKED BY:

DATE:

SIZE

DWG. NO.

ELECTRONIC FILE

REV

JAG

DATE:

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APPROVED BY:

DATE:

SCALE:

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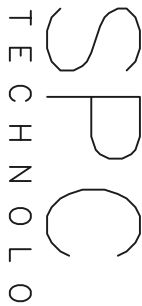
U.O.M.: INCHES [mm]

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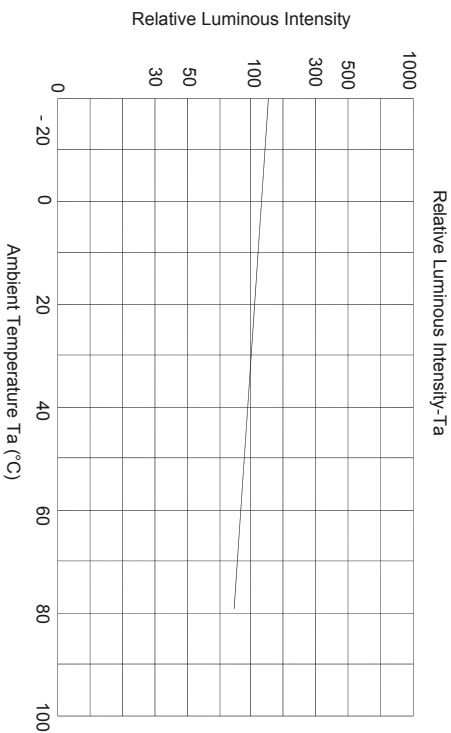
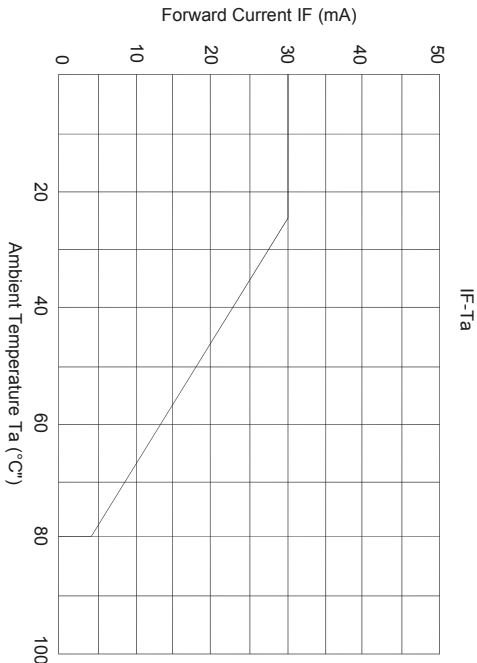
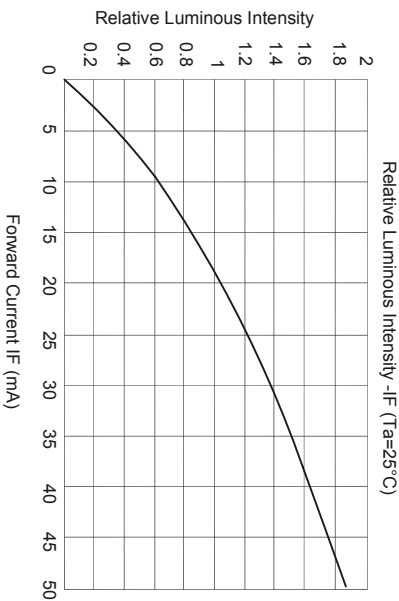
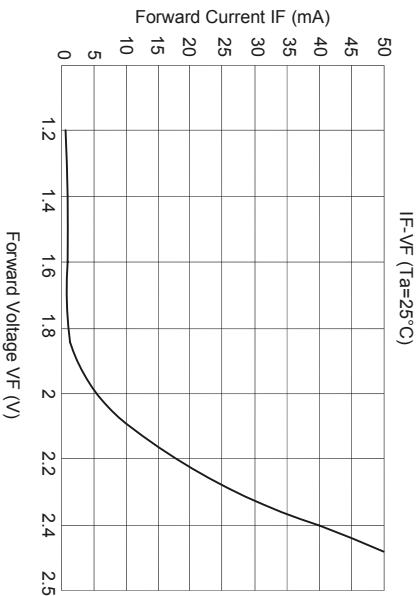
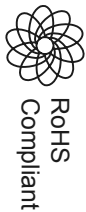
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ELECTRONIC FILE

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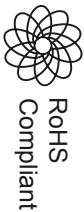


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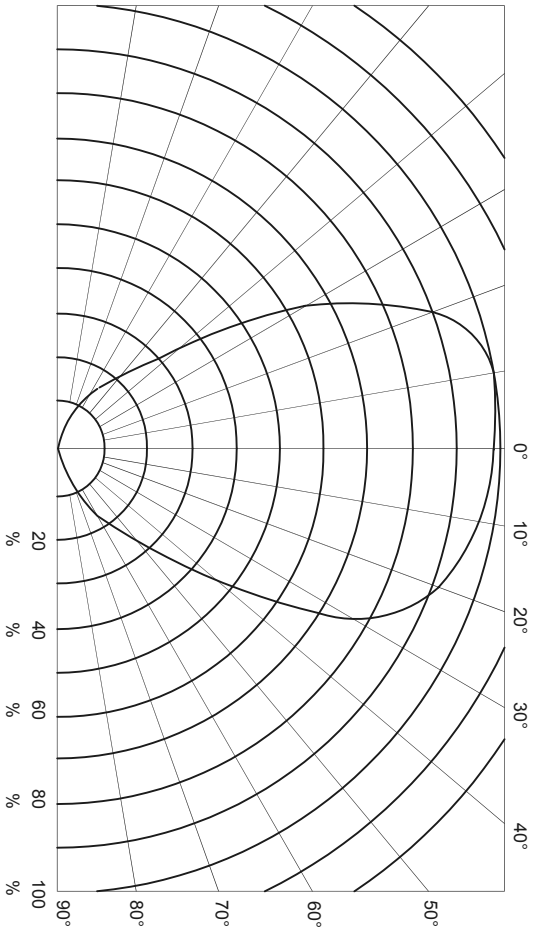
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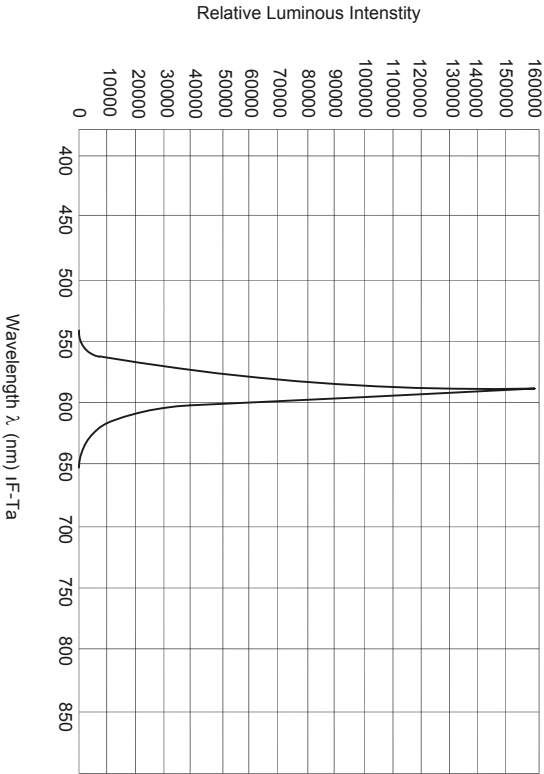
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			AMU	23-08-10	JAG	26-08-10	XXX	09-09-10



Directive Characteristics (Ta=25°C



Wavelength Characteristics (Ta=25°C



Part Number Table

Description	Part Number
Standard LED,Round Lens, 3mm (T1) ,Yellow Emitting Color	MV6754A

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AMU	23-08-10	Standard LED,Round Lens, 3mm (T1) ,Yellow Emitting Color	
CHECKED BY:	DATE:	SIZE	DWG. NO.
JAG	26-08-10	XXX	XXX
APPROVED BY:	DATE:	SCALE:	U.O.M.: INCHES [mm]
XXX	09-09-10	NTS	
		SHEET:	1 OF 1