



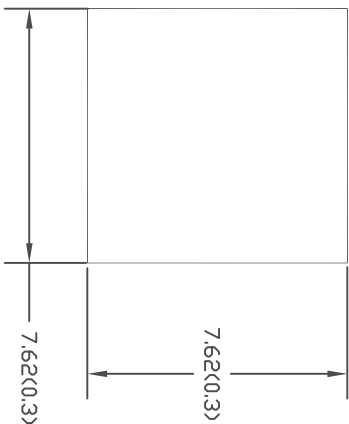
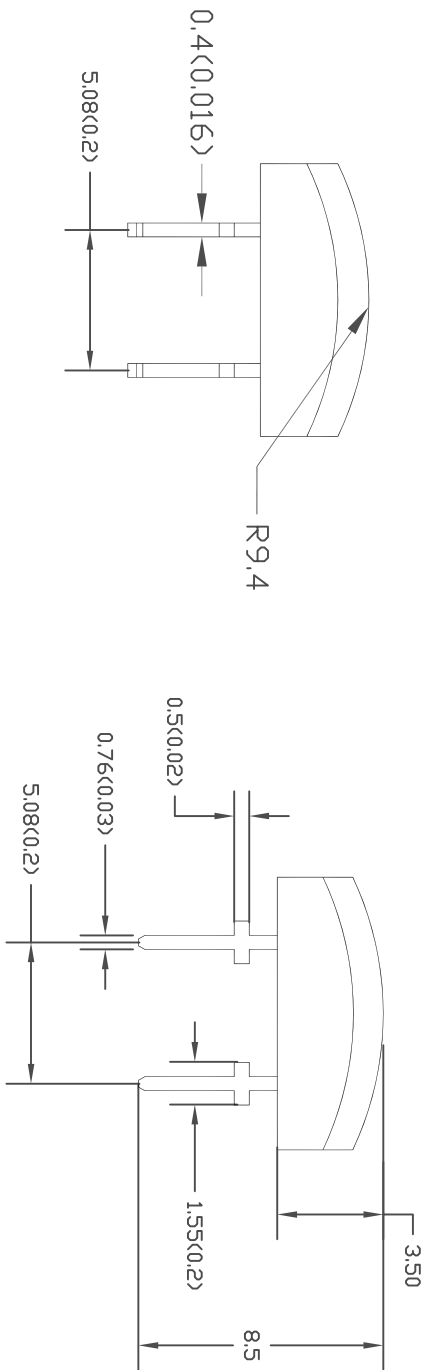
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SPC-F005JLVG

REVISIONS			DOC. NO.	SPC-F005	*	Effective	7/8/02	*	Doc No	1398
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVI	DATE		
XX	XX	XXXX	XXXX	23-09-08	XXXX	23-09-08	XXXX	23-09-08		
XXXX	XXXX		XXXX	23-09-08	XXXX	23-09-08	XXXX	23-09-08		

Package Dimension:



Part No	Chip Material	Lens Color	Source Color
ETG-PTSS590-180	AlInGaP	Water Clear	Yellow

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance ±0.25mm (0.010") unless otherwise noted.
3. Protruded resin under flange is 10mm (0.4") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.
6. This data-sheet only valid for six months.



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DRAWING TITLE:

Multi Color LED

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC24176	02P5900	XX
SCALE:	NTS	U.D.M:	INCHES [mm]
SHEET:	1	OF	1



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SPC-F005.DWG

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XX	XX	XXXX	XXXX	23-09-08	XXXX	23-09-08	XXXX
XXXX	XXXX		XXXX	23-09-08	XXXX	23-09-08	XXXX

Absolute Maximum Ratings

(Ta=25°C)

Parameter	Max.	Unit
Power Dissipation	120	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	50	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,157°J From Body]	260°C for 5 Seconds	

Electro-optical Characteristics

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Flux	LM	---	0.98	---	lm	I _f =50mA (Note 1)
Viewing Angle	2θ _{1/2}	---	140	---	Deg	(Note 2)
Peak Emission Wavelength	λ _p	---	590	---	nm	I _f =30mA
Spectral Line Half-Width	Δλ	---	25	---	nm	I _f =30mA
Dominant Wavelength	λ _d	---	588	---	nm	I _f =30mA
Forward Voltage	V _f	---	2.2	2.6	V	I _f =30mA
Reverse Current	I _r	---	---	100	μA	V _r =5V

Notes:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 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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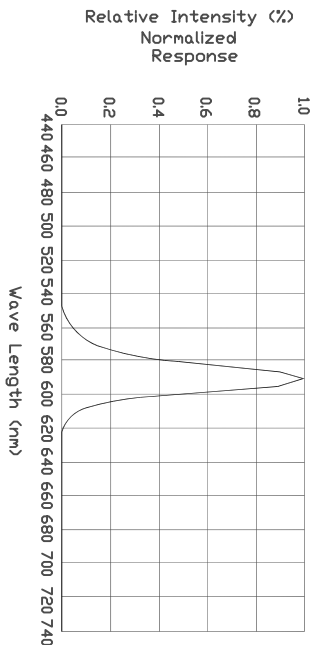
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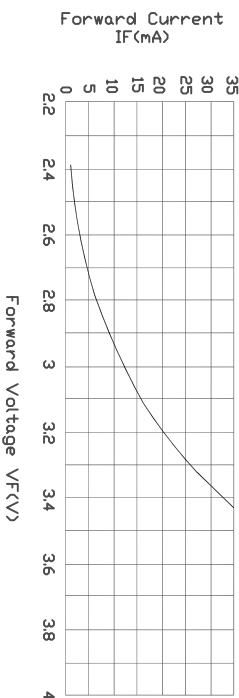
REVISIONS		DOC. NO. SPC-F005	* Effective: 7/8/02	* DCP No: 1398				
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XXXX	XXXX		XXXX	25-09-08	XXXX	25-09-08	XXXX	25-09-08

Typical Electrical/Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

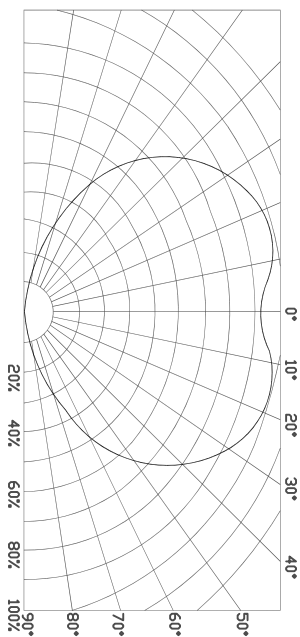
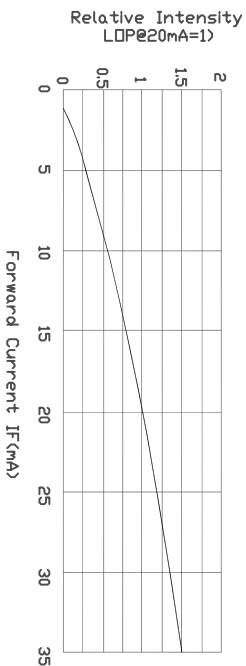
Relative Intensity vs. Wavelength
Spectral Radiance (Peak @ 590nm)



Forward Current vs. Forward Voltage



Relative Luminous Intensity vs Forward Current



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