



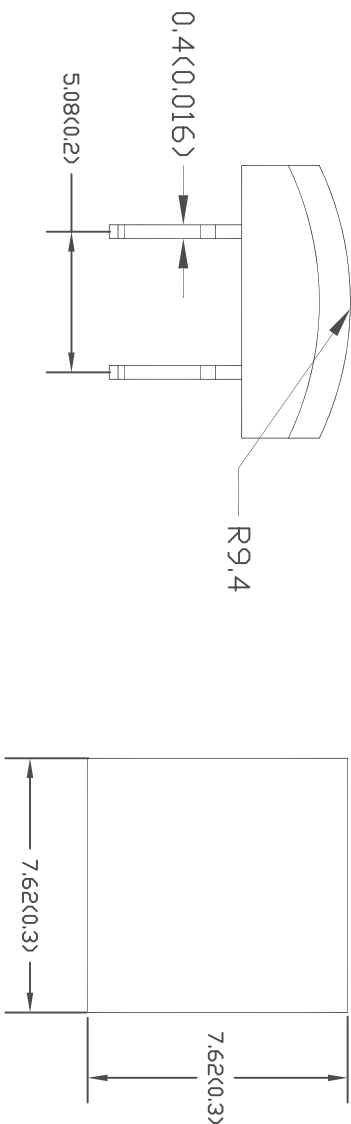
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SPC-F005JLVG

REVISONS		DOC. NO.	SPC-F005	Effective	7/8/02	DCP No	1398	
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVI	DATE
XX	XX	XXXX	XXXX	11-09-08	XXXX	11-09-08	XXXX	11-09-08
XXXX	XXXX		XXXX	11-09-08	XXXX	11-09-08	XXXX	11-09-08

Package Dimension:



Part No	Chip Material	Lens Color	Source Color
ETG-PRG630-180	Algalnp	Water Clear	Super Bright Red

Notes:

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ ($0.010''$) unless otherwise noted.
- Protruded resin under flange is 1.0mm ($0.04''$) max.
- Lead spacing is measured where the leads emerge from the package.
- Specifications are subject to change without notice.
- This data-sheet only valid for six months.



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DRAWN BY:	DATE:
XXXX	11-09-08
CHECKED BY:	DATE:
XXXX	11-09-08
APPROVED BY:	DATE:
XXXX	11-09-08

DRAWING TITLE:		SCALE:	U.D.M.:	SHEET:	DF
LED - MULTICOMP		NTS	INCHES [mm]	1	1
SIZE	DWG. NO.	ELECTRONIC FILE	REV		
A	MC24172	02P5896			



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SPC-F005.DWG

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DCP #	REV			DRAWN	DATE	CHECKD	DATE	APPRVI	DATE
XX	XX	XXXX		XXXX	09-09-08	XXXX	09-09-08	XXXX	09-09-08
XXXX	XXXX			XXXX	09-09-08	XXXX	09-09-08	XXXX	09-09-08

Absolute Maximum Ratings

Ta=25°C

Parameter	MAXIMUM	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") from Body]	260°C for 5 seconds	

Electrical Optical Characteristics

Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v		500		mcd	$I_f=30mA$ (Note 1)
Viewing Angle	$2\theta_{1/2}$		140		Deg	(Note 2)
Peak Emission Wavelength	λ_p		632	640	nm	$I_f=50mA$
Dominant Wavelength	λ_d		625	635	nm	$I_f=50mA$ (Note 3)
Spectral Line Half-Width	%	15	20	25	nm	$I_f=50mA$
Forward Voltage	V_f		2.2	2.6	V	$I_f=50mA$
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.
- $\theta_{1/2}$ 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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DRAWN BY:	DATE:	DRAWING TITLE:
XXXX	09-09-08	Multi-Color LED
CHECKED BY:	DATE:	
XXXX	09-09-08	
APPROVED BY:	DATE:	
XXXX	09-09-08	SCALE: NTS

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	02P5896	02P5896	XX

U.D.M:	INCHES [mm]	SHEET:	1 OF 1
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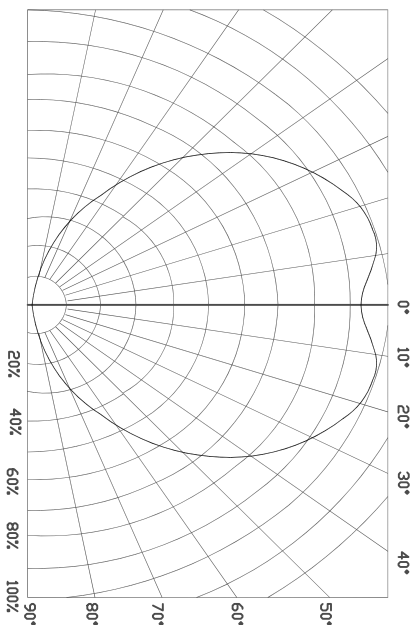
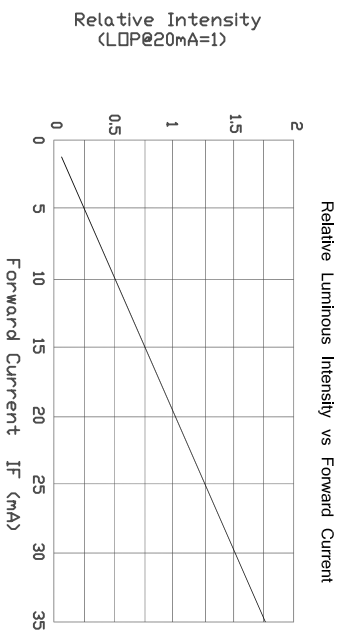
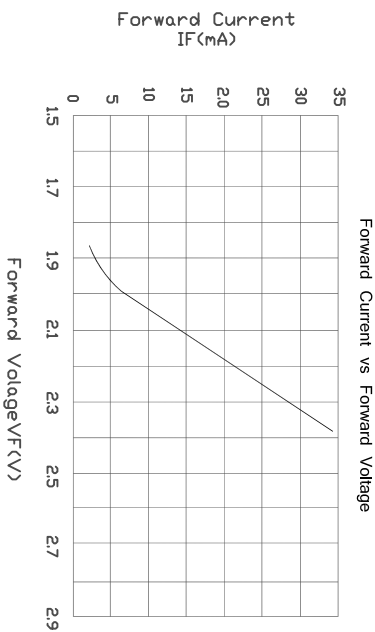
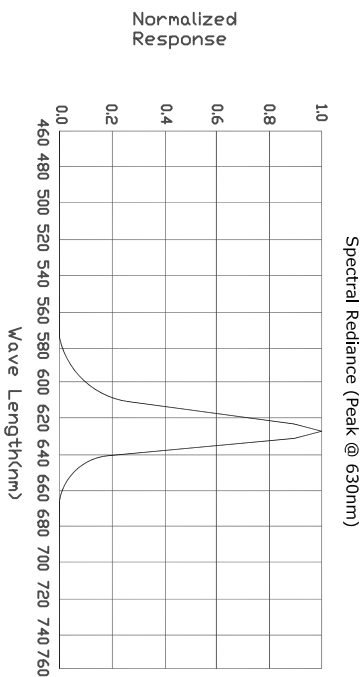
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SPC-F005.DWG

REVISIONS		DOC. NO. SPC-F005	* Effective: 7/8/02	* DCP No: 1398
DCP #	REV	DESCRIPTION	DATE	DATE
XX	XX	XXXX	XXXX	XXXX
XXXX	XXXX		25-09-08	XXXX
			25-09-08	XXXX
			25-09-08	XXXX
			25-09-08	XXXX

Typical Electrical/Optical Characteristics Curves

(25° Ambient Temperature Unless Otherwise Noted)



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XXXX	25-09-08
CHECKED BY:	DATE:
XXXX	25-09-08
APPROVED BY:	DATE:
XXXX	25-09-08

DRAWING TITLE:		Multi Color LED	
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC24172	02P5896	XX
SCALE:	NTS	U.O.M.: INCHES [mm]	SHEET: 1 OF 1