



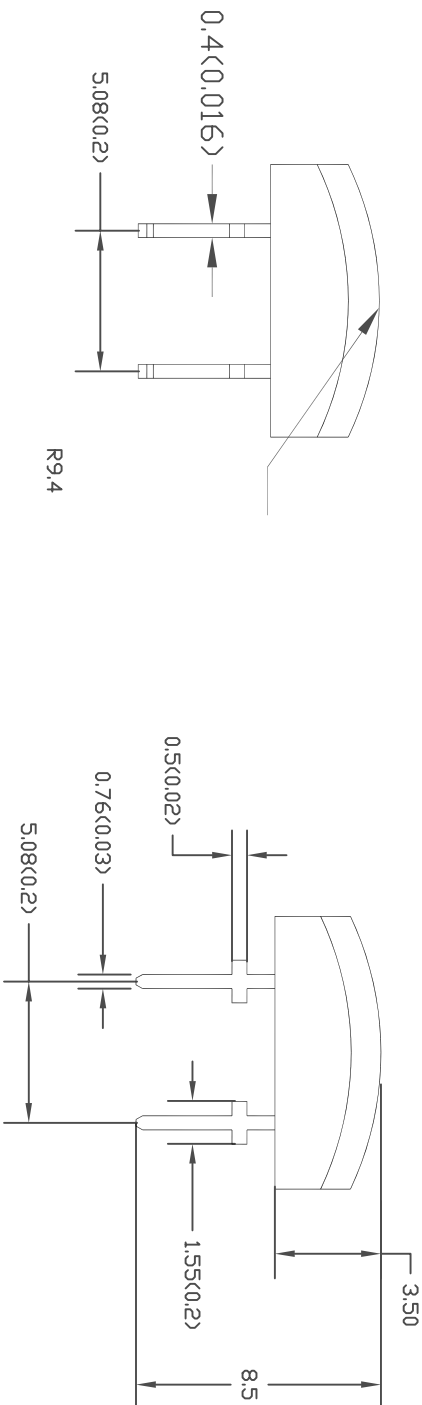
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SPC-F005.DWG

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	22-09-08	XXXX	22-09-08	XXXX	22-09-08			
XXXX	XXXX		XXXX	22-09-08	XXXX	22-09-08	XXXX	22-09-08			

Package Dimension:



Part No	Chip Material	Lens Color	Source Color
ETG-PMNSE5-180	Ingan	Water Clear	Blue

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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DRAWN BY:	DATE:
XXXX	22-09-08
CHECKED BY:	DATE:
XXXX	22-09-08
APPROVED BY:	DATE:
XXXX	22-09-08

DRAWING TITLE:		Multi Color LED	
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC24178	02P5902	XX
SCALE:	NTS	U.D.M:	INCHES [mm]
		SHEET:	1 OF 1



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DCP #	REV	DESCRIPTION		DRAWN	DATE	CHECKD	DATE	APPRVI	DATE
XX	XX	XXXX		XXXX	26-09-08	XXXX	26-09-08	XXXX	26-09-08
XXXX	XXXX			XXXX	26-09-08	XXXX	26-09-08	XXXX	26-09-08

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	30	mA
Derating Linear From 50	0.4	mA/°
Reverse Voltage	5	V
Operating Temperature Range	-25° to +80°	
Storage Temperature Range	-40° to 100°	
Lead Soldering Temperature (4mm(157) From Body)	260° for 5 Seconds	

Electrical Optical Characteristics

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	-	300	-	mcd	$I_f=20mA$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	-	140	-	Deg	(Note 2)
Peak Emission Wavelength	λ_p	-	470	-	nm	$I_f=20mA$
Dominant Wavelength	λ_d	-	468	473	nm	$I=20mA$ (Note 3)
Spectral Line Half-Width	λ	-	25	-	nm	$I=20mA$
Forward Voltage	V_f	-	3.5	4.0	V	$I_f=20mA$
Reverse Current	I_R	-	-	100	μA	$V_R=5V$

Notes:
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 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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DATE: 26-09-08

SIZE DWG. NO. A MC24178

ELECTRONIC FILE 02P5902

REV XX

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APPROVED BY: XXXX

DATE: 26-09-08

SCALE: NTS

U.D.M.: INCHES [mm]

SHEET: 1 OF 1



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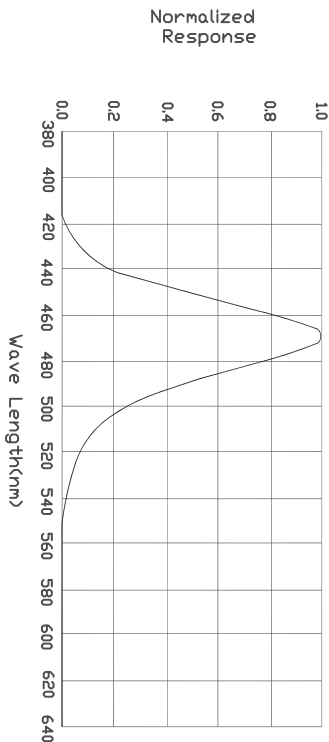
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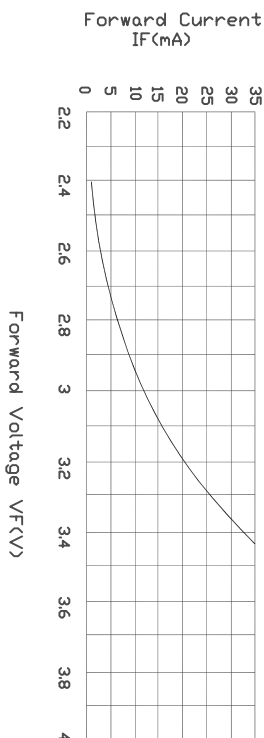
REVISIONS		DOC. NO. SPC-F005	* Effective: 7/8/02	* DCP No: 1398				
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRD	DATE
XX	XX	XXXX	XXXX	23-09-08	XXXX	23-09-08	XXXX	23-09-08
XXXX	XXXX		XXXX	23-09-08	XXXX	23-09-08	XXXX	23-09-08

Typical Electrical/optical Characteristics Curves

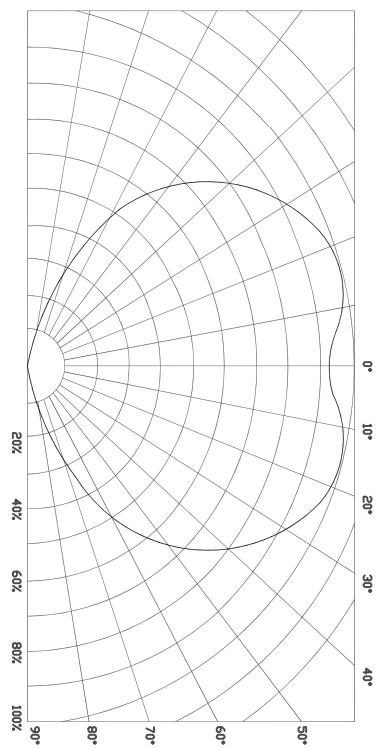
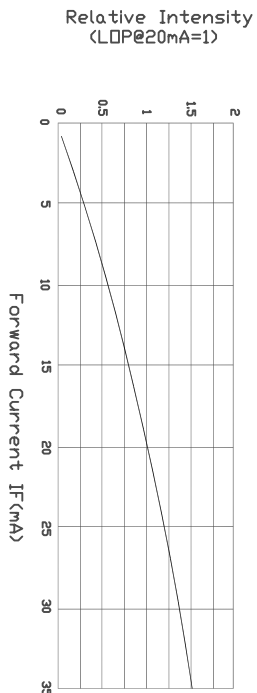
Spectral Radiance (Peak @468nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



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