



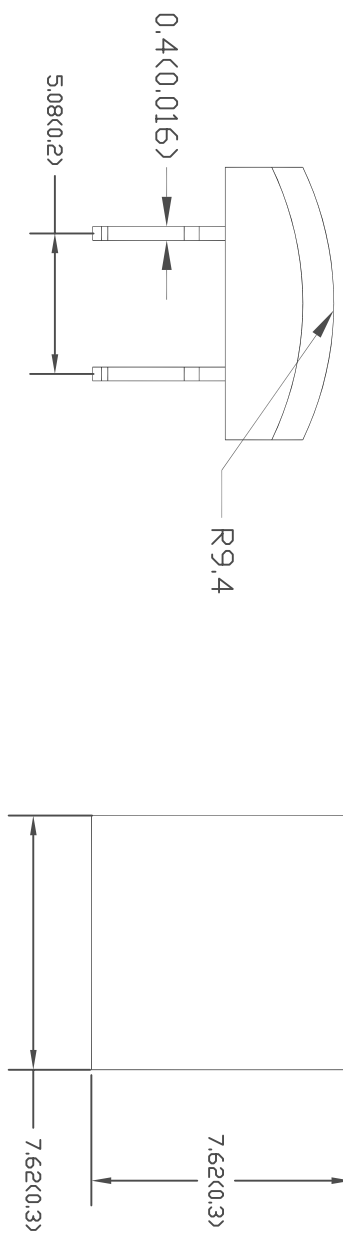
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SPC-F005.DWG

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	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-PMNS25-180	InGaN	Water Clear	Green

- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance $\pm 0.25\text{mm}$ ($.010''$) unless otherwise noted.
 3. Protruded resin under flange is 10mm ($.04''$) 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:	DRAWING TITLE:		Multi Color LED	
XXXX	23-09-08	SIZE	DWG. NO.	ELECTRONIC FILE	REV
CHECKED BY:	DATE:	A	MC24177	02P5901	XX
XXXX	23-09-08	SCALE:	NTS	U.D.M:	INCHES [mm]
APPROVED BY:	DATE:	SHEET:		1	OF 1
XXXX	23-09-08				



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

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	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°C	
Lead Soldering Temperature [4mm,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	800	1000		mcd	$I_f=30mA$ (Note 1)
Viewing Angle	$2\theta_{1/2}$		180		Deg	(Note 2)
Peak Emission Wavelength	λ_p		525		nm	$I_f=20mA$
Dominant Wavelength	λ_d		523		nm	$I_f=20mA$ (Note 3)
Spectral Line Half-Width	%	15	20	25	nm	$I_f=30mA$
Forward Voltage	V_f		3.2	4.0	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.
- $\theta/2$ 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.



RoHS
Compliant

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DRAWING TITLE:

Multi-Color LED

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SCALE:	NTS	U.D.M. INCHES [mm]	SHEET: 1 OF 1

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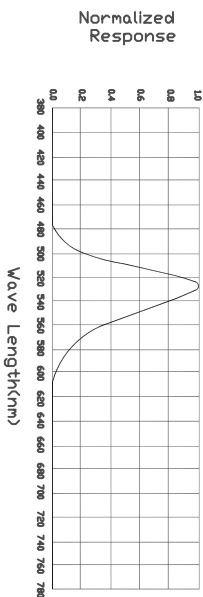
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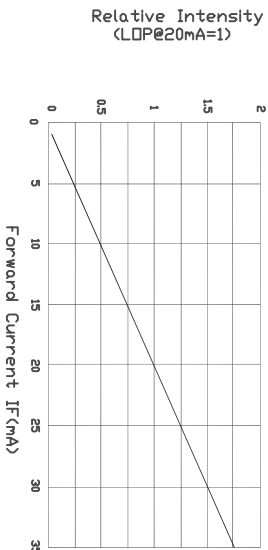
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Typical Electrical/Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

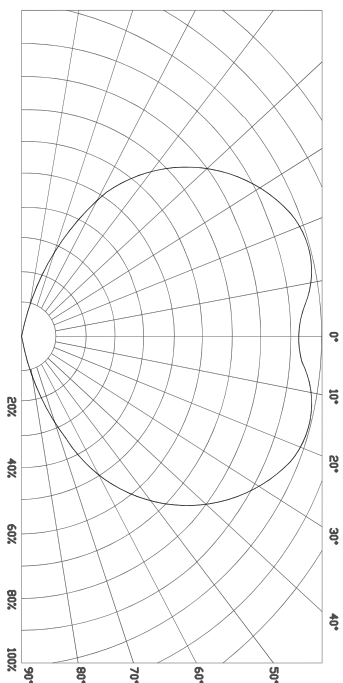
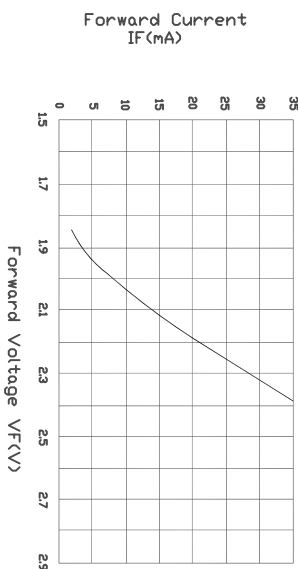
Spectral Radiance (Peak @525nm)



Relative Luminous Intensity vs Forward Current



Forward Current vs Forward Voltage



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