SPC TECHNOLOGY

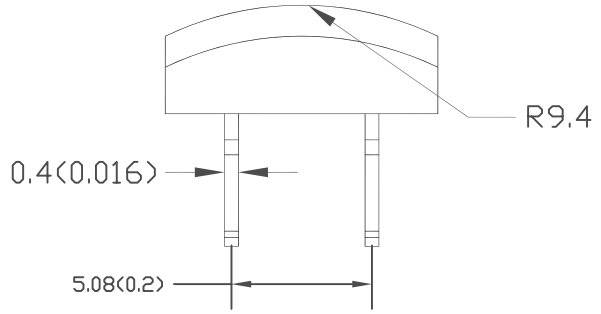
SPC-F005.DWG

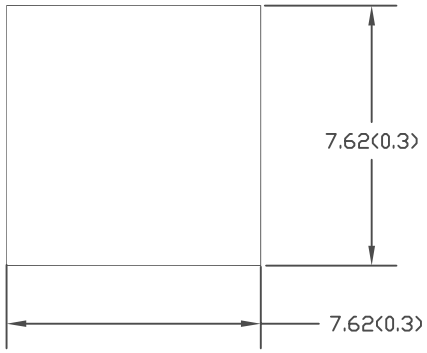
REVISIONS

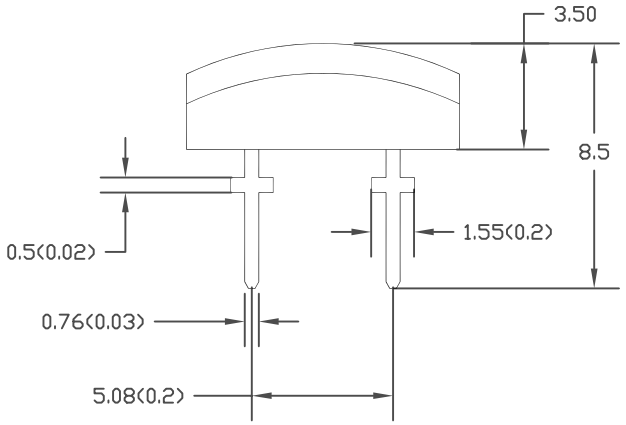
DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	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-PMN525-180	InGaN	Water Clear	Green

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance ±0.25mm (.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm (.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.

RoHS Compliant

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
XXXX	23-09-08
CHECKED BY:	DATE:
XXXX	23-09-08
APPROVED BY:	DATE:
XXXX	23-09-08

DRAWING TITLE: Multi Color LED

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC24177	02P5901	XX

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

SPC TECHNOLOGY

SPC-F005.DWG

REVISIONS

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

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	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	530	nm	I_f=20mA (Note 3)
Spectral Line Half-Width	$\Delta\lambda$	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:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. Θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λd) is derived from the CIE Chromaticity diagram and represents the single wavelength which defines the color of the device.

RoHS Compliant

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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

DRAWING TITLE: Multi-Color LED

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	02P5901	02P5901	XX

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

SPC TECHNOLOGY

SPC-F005.DWG

REVISIONS

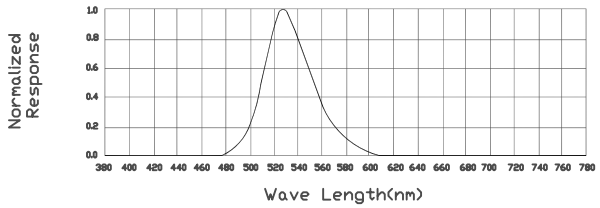
DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	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

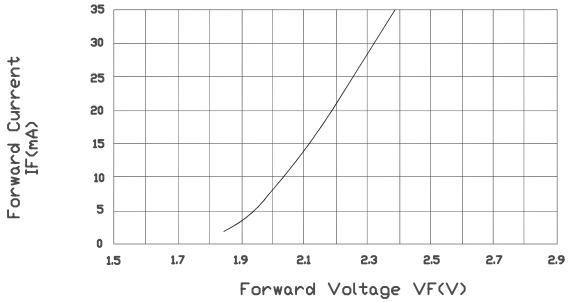
Typical Electrical/optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

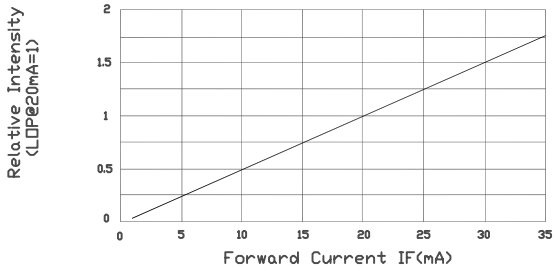
Spectral Radiance (Peak @525nm)

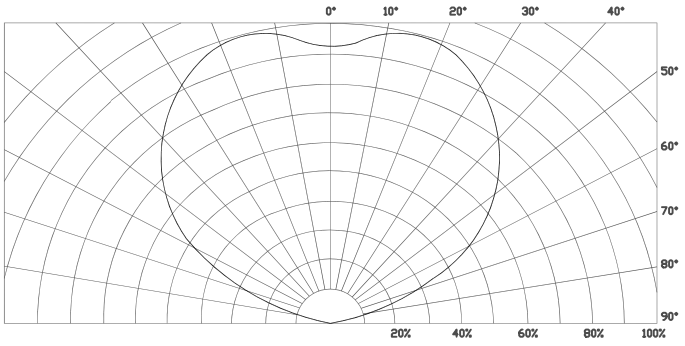


Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current





RoHS Compliant

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
XXXX	23-09-08
CHECKED BY:	DATE:
XXXX	23-09-08
APPROVED BY:	DATE:
XXXX	23-09-08

DRAWING TITLE: Multi Color LED

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC24177	02P5901	XX

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