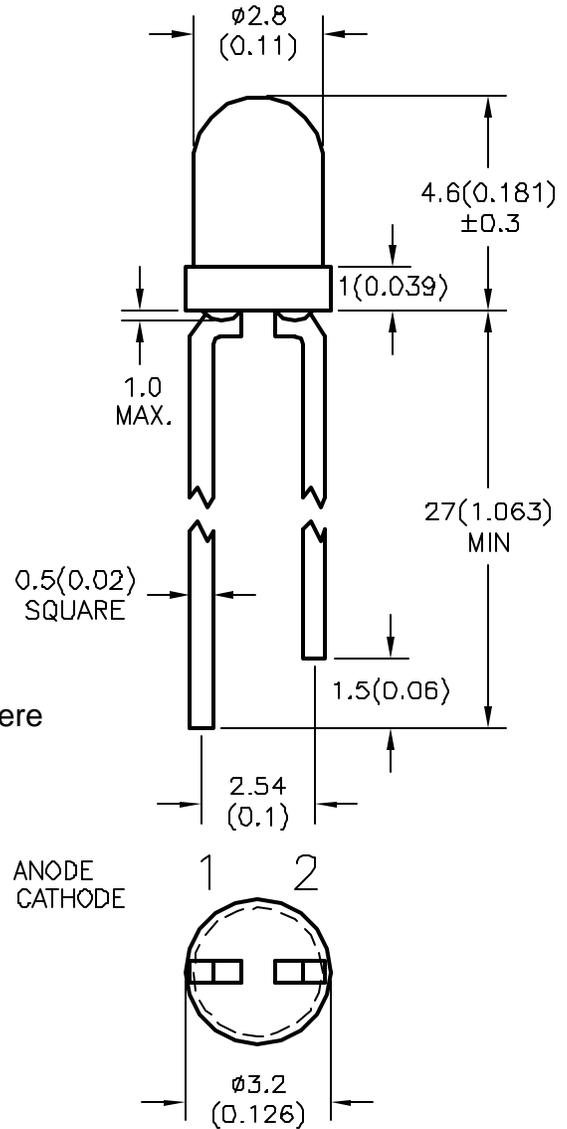


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REVISIONS			DDC. NO. SPC-F004 * Effective: 12/21/98 * DCP No: 680					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
266	A	RELEASED	HYD	8/18/00	JC	2/19/01	DJC	2/19/01

## PACKAGE DIMENSIONS



### FEATURES:

1. Ultra brightness
2. Outstanding material efficiency
3. Reliable and rugged
4. IC compatible/low current capability

### DESCRIPTION:

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

### Note:

Lead spacing is measured where the lead emerge package.

DICE	LENS TYPE	Iv (mcd) @ 20 mA		Viewing Angle 2θ <sub>1/2</sub>
		MIN	MAX	
Super Bright Green (GaP)	Water Clear	100	300	50°

### Notes:

θ<sub>1/2</sub> is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

SPC-F004.DWG

**DISCLAIMER:**  
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

**multicomp**

Tolerance Unless Otherwise Specified .XX ± 0.25 (0.01")	DRAWN BY:	DATE:	DRAWING TITLE:			
	HISHAM QDISH	8/18/00	LED, 3mm SUPER BRIGHT GREEN, WATER-CLEAR LENS			
	CHECKED BY:	DATE:	SIZE	DWG. NO.	ELECTRONIC FILE	REV
	JOHN COLE	2/19/01	A	MCL-934SGC	92N5351.DWG	A
APPROVED BY:	DATE:	SCALE: NTS		U.O.M.: MM (INCHES)		
DANIEL CAREY	2/19/01			SHEET: 1 OF 3		

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

SYMBOL	PARAMETER	TYP.	Max.	UNITS	TEST CONDITIONS
$\lambda_{peak}$	Peak Wavelength	565		nm	IF = 20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	30		nm	IF = 20mA
C	Capacitance	45		pF	VF=0V; f=1MHz
V <sub>F</sub>	Forward Voltage	2.2	2.5	V	IF=20mA
I <sub>R</sub>	Reverse Current	10		uA	VR=5V

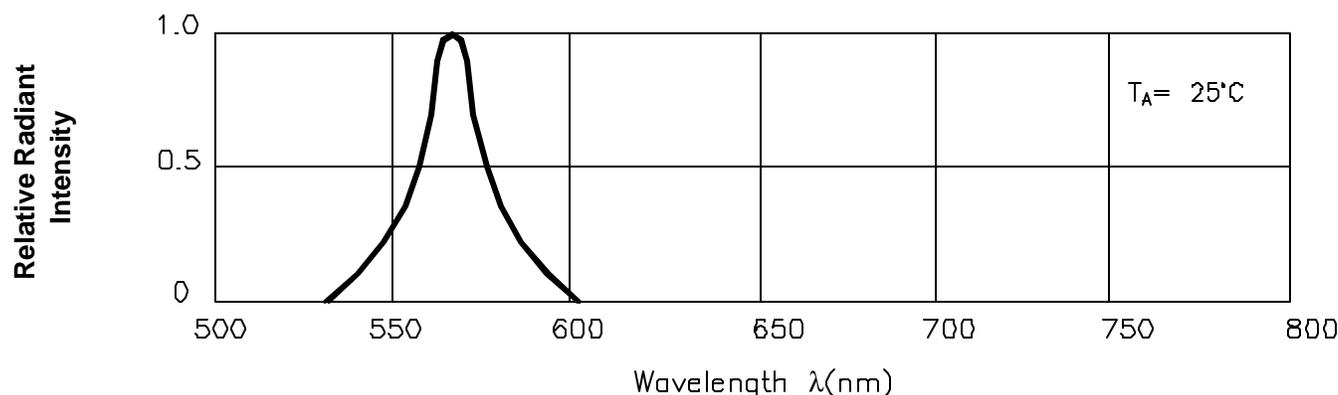
## Absolute Maximum Ratings at T<sub>A</sub>=25°C

Power dissipation (mW)	DC Forward Current (mA)	Peak Forward Current [1] (mA)	Reverse Voltage (V)	Operating/Storage Temperature (°C)	Lead Soldering Temperature [2] (°C)
105	25	150	5	-40°C ~ +85°C	260°C for 5 sec

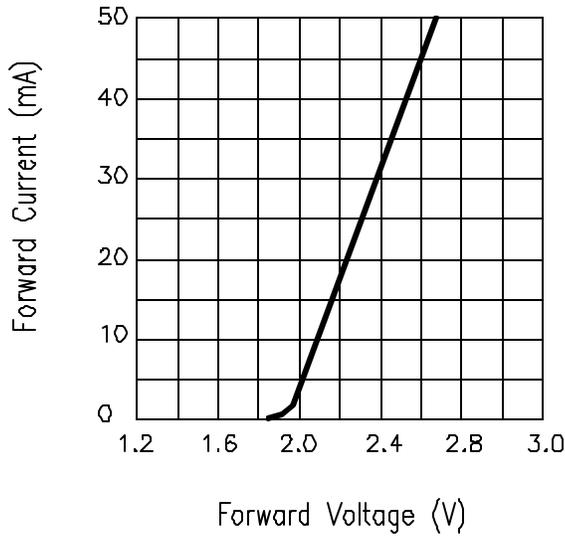
### Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.

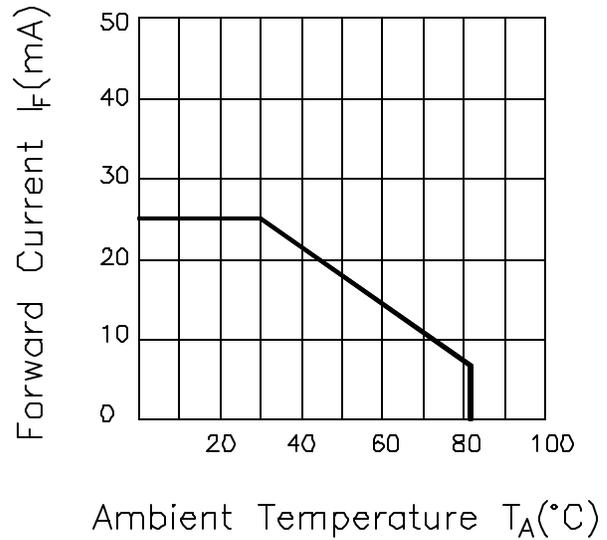
## RELATIVE INTENSITY Vs. WAVELENGTH



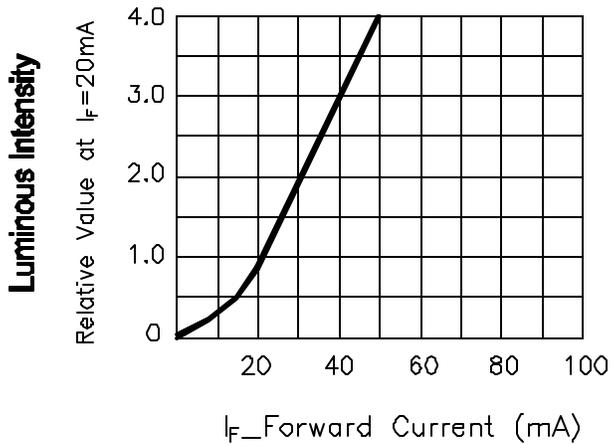
SIZE <b>A</b>	DWG. NO. <b>MCL-934SGC</b>	ELECTRONIC FILE <b>92N5351.DWG</b>	REV <b>A</b>
SCALE: NTS		U.O.M.: MM (INCHES)	SHEET: 2 OF 3



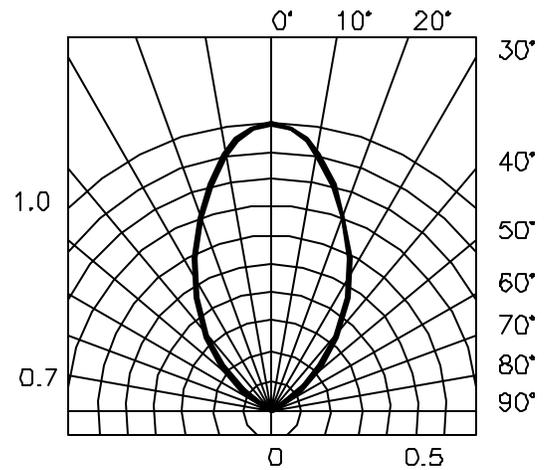
**FORWARD CURRENT vs. FORWARD VOLTAGE**



**FORWARD CURRENT DERATING CURVE**



**LUMINOUS INTENSITY vs. FORWARD CURRENT**



**SPATIAL DISTRIBUTION**

SIZE <b>A</b>	DWG. NO. <b>MCL-934SGC</b>	ELECTRONIC FILE <b>92N5351.DWG</b>	REV <b>A</b>
SCALE: NTS		U.O.M.: MM (INCHES)	SHEET: 3 OF 3