L-813SGC SUPER BRIGHT GREEN

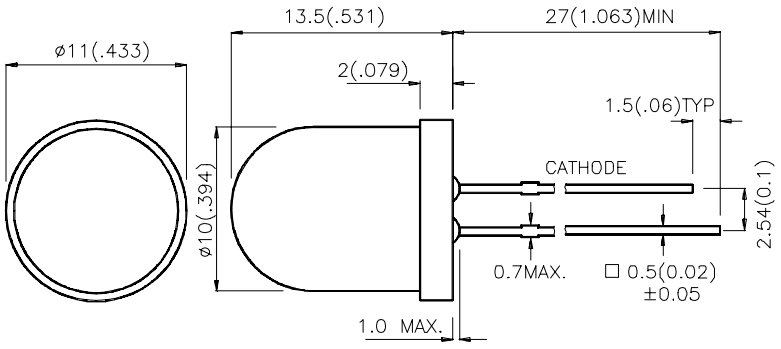
Features

- ●ULTRA BRIGHTNESS.
- ●10mm DIAMETER BIG LAMP.
- ●WIDE VIEWING ANGLE.
- ●I.C. COMPATIBLE.
- ●BOTH DIFFUSED AND WATER CLEAR LENS ARE AVAILABLE.
- ●RELIABLE AND RUGGED.
- ●LONG LIFE - SOLID STATE RELIABILITY.

Description

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

Package Dimensions



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-813SGC	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	200	350	40°

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

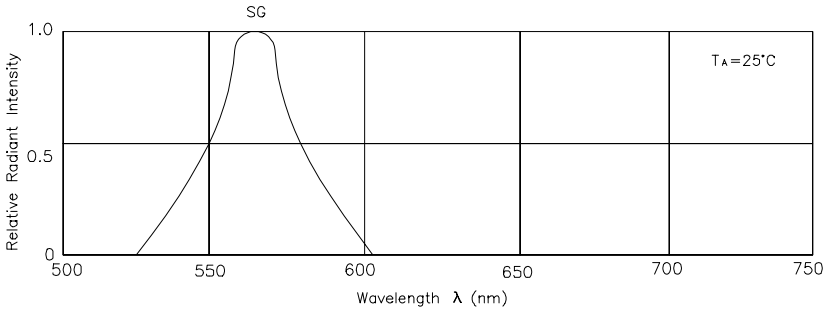
Electrical / Optical Characteristics at T_A=25ºC

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	IF=20mA
λ D	Dominate Wavelength	Super Bright Green	568		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Super Bright Green	30		nm	IF=20mA
C	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
V_F	Forward Voltage	Super Bright Green	2.2	2.5	V	IF=20mA
I_R	Reverse Current	Super Bright Green		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25ºC

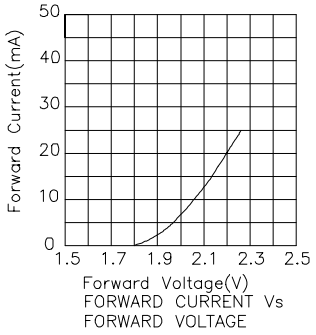
Parameter	Super Bright Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.

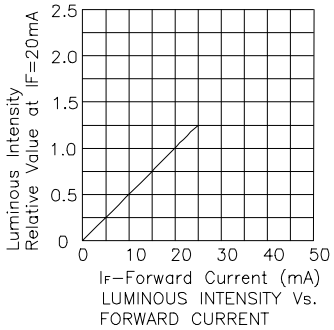


RELATIVE INTENSITY Vs. WAVELENGTH

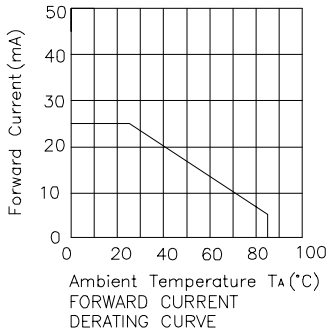
Super Bright Green L-813SGC



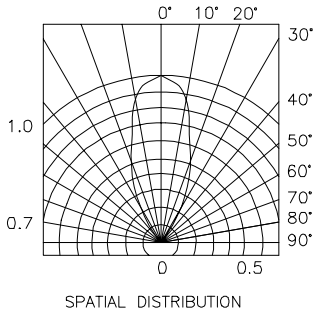
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



SPATIAL DISTRIBUTION