

L59BL/SGSURKW

SUPER BRIGHT GREEN /
HYPER RED

Features

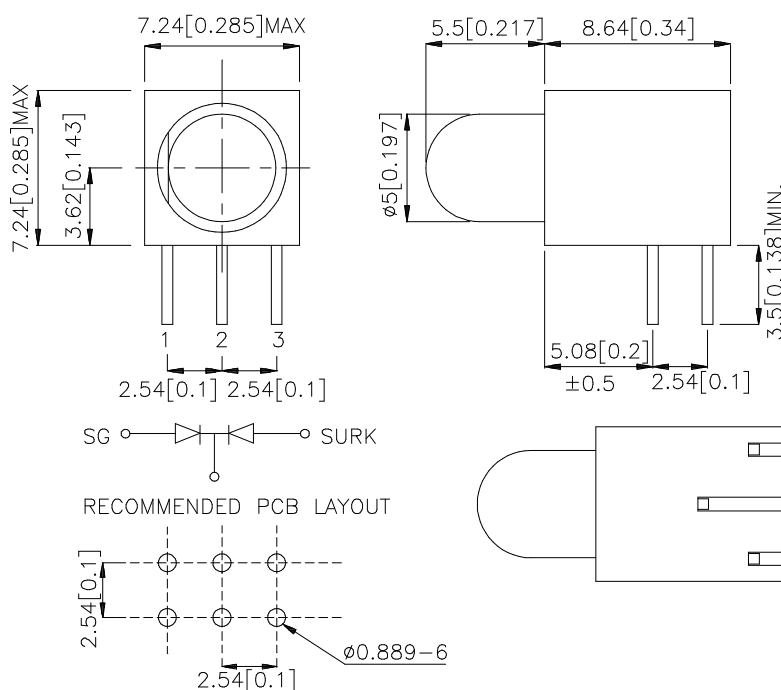
- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- 3 LEADS WITH COMMON CATHODE LEAD.
- THIRD COLOR (MIXED COLOR) AVAILABLE.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY - LIFE MEASURED IN YEARS.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.

Description

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

The Hyper Red source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ 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
L59BL/SGSURKW	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	36	60	60°
	HYPER RED (InGaAlP)		380	800	

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=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Super Bright Green Hyper Red	565 650		nm	I _F =20mA
λ _D	Dominate Wavelength	Super Bright Green Hyper Red	568 635		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	Super Bright Green Hyper Red	30 28		nm	I _F =20mA
C	Capacitance	Super Bright Green Hyper Red	15 35		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Super Bright Green Hyper Red	2.2 1.95	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	All		10	uA	V _R = 5V

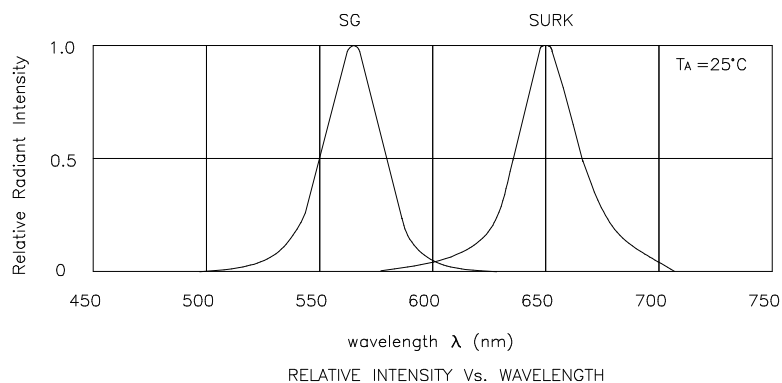
Absolute Maximum Ratings at T_A=25°C

Parameter	Super Bright Green	Hyper Red	Units
Power dissipation	105	170	mW
DC Forward Current	25	30	mA
Peak Forward Current [1]	140	185	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. 2mm below package base.



Super Bright Green / Hyper Red

L59BL/SGSURKW

