



L53SGD5V SUPER BRIGHT GREEN

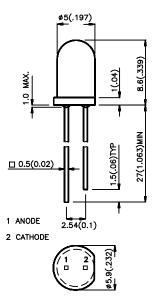
Features

- •HIGH INTENSITY.
- •LOW POWER CONSUMPTION.
- •POPULAR T-1 3/4 DIAMETER PACKAGE.
- •GENERAL PURPOSE LEADS.
- •RELIABLE AND RUGGED.
- •LONG LIFE SOLID STATE RELIABILITY.
- •AVAILABLE ON TAPE AND REEL.
- •5V INTERNAL RESISTOR.

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 $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the lead emerge package.
- 4. Specifications are subjected to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) V=5V		Viewing Angle
			Min.	Тур.	201/2
L53SGD5V	SUPER BRIGHT GREEN (GaP)	GREEN DIFFUSED	8	20	60°

Note:

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	VF=5V
λD	Dominate Wavelength	Super Bright Green	568		nm	VF=5V
Δλ1/2	Spectral Line Halfwidth	Super Bright Green	30		nm	VF=5V
I _F	Forward Current	Super Bright Green	13		mA	VF=5V
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Super Bright Green	Units
Power dissipation	85	mW
DC Forward Voltage	6.5	V
Reverse Voltage	5	V
Operation Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[1]	260°C For 5 Seconds	

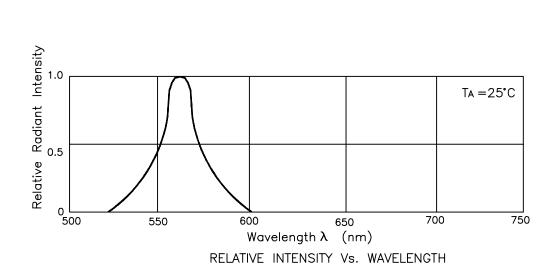
Notes:

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

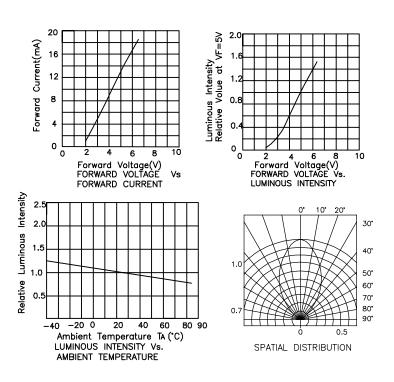
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 $^{1.\,\}theta1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.





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