Kingbright

T- 1 3/4 (5mm) SUPER BRIGHT LED LAMPS

L-53SG SUPER BRIGHT GREEN

L-53SR SUPER BRIGHT RED

Features

- •ULTRA BRIGHTNESS.
- •BOTH DIFFUSED AND WATER CLEAR LENS ARE AVAILABLE.
- •OUTSTANDING MATERIAL EFFICIENCY.
- •RELIABLE AND RUGGED.
- •IC COMPATIBLE/LOW CURRENT CAPABILITY.

Description

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

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions ø5(.197) MAX. □ 0.5(0.02) 1 ANODE 2.54(0.1) 2 CATHODE

- 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 subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20 mA		Viewing Angle
			Min.	Max.	2q1/2
L-53SGC	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	100	300	
L-53SRC-A L-53SRC-B L-53SRC-DU L-53SRC-DU L-53SRC-DV L-53SRC-DW L-53SRC-E L-53SRC-F	SUPER BRIGHT RED (GaAIAs)	WATER CLEAR	300 400 500 1000 1300 1600 2000 3500	400 500 1000 1300 1600 2000 3500 4500	30°
L-53SGD	SUPER BRIGHT GREEN (GaP)	GREEN DIFFUSED	20	60	
L-53SRD-B L-53SRD-C L-53SRD-D L-53SRD-E L-53SRD-F L-53SRD-G L-53SRD-H	SUPER BRIGHT RED (GaAIAs)	RED DIFFUSED	90 110 200 300 500 700 1000	110 200 300 500 700 1000 1600	60°

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

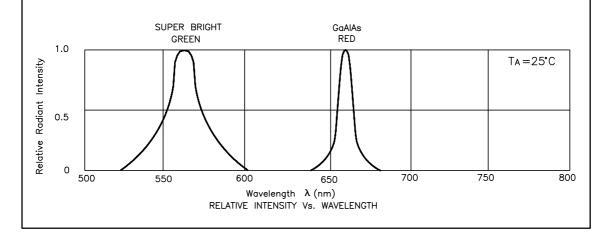
Electrical / Optical Characteristics at T_A =25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Super Bright Green Super Bright Red	565 660		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	Super Bright Green Super Bright Red	30 20		nm	IF=20mA	
С	Capacitance	Super Bright Green Super Bright Red	45 95		pF	VF=0V;f=1MHz	
V _F	Forward Voltage	Super Bright Green Super Bright Red	2.2 1.85	2.5 2.5	V	IF=20mA	
I _R	Reverse Current	All	10		uA	VR = 5V	

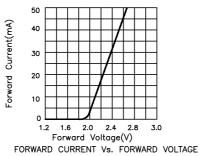
Absolute Maximum Ratings at T_A =25°C

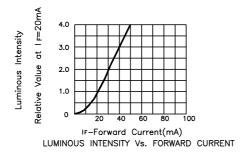
Parameter	Super Bright Green	Super Bright Red	Units		
Power dissipation	105	100	mW		
DC Forward Current	25	30	mA		
Peak Forward Current [1]	150	150	mA		
Reverse Voltage	5	5	V		
Operating/Storage Temperature	-40°C To +85°C				
Lead Soldering Temperature [2]	260 ° CFor 5 Seconds				

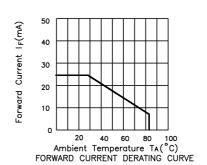
Notes: 1.1/10 Duty Cycle, 0.1ms Pulse Width. 2. 4mm below package base.

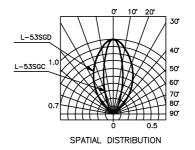


Super Bright Green L-53SGC / L-53SGD









Super Bright Red L-53SRC / L-53SRD

