Indicators

Order code	Manufacturer code	Description
72-8910	BLF051URC-12V-P	RED 12V 5MM FLANGED BASE LED
72-8912	n/a	RED 24V 5MM FLANGED BASE LED
72-8914	n/a	GREEN 12V 5MM FLANGED BASE LED
72-8916	n/a	GREEN 24V 5MM FLANGED BASE LED
72-8918	n/a	YELLOW 12V 5MM FLANGED BASE LED
72-8920	n/a	YELLOW 24V 5MM FLANGED BASE LED

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Kingbright®

5mm FLANG BASED LED LAMPS

BLF051 SERIES

Features

- BUILT-IN CURRENT LIMITING RESISTOR FOR DIRECT APPLICATION OF DIFFERENT ACROSS CURRENT.
- LONG LIFE.
- LOW CURRENT, POWER SAVINGS.
- LOW MAINTENANCE.
- DIFFERENT COLOR AVAILABLE.
- SOLID STATE, HIGH VIBRATION RESISTANT.

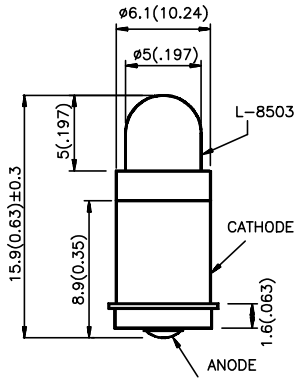
Description

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.

The Super Bright Yellow 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 ±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	Iv (mcd) V=6V , V=12V V=24V		Viewing Angle
			Min.	Max.	2θ1/2
BLF051URC-6V-P	SUPER BRIGHT RED (GaAlAs)	WATER CLEAR	1500	3000	30°
BLF051URC-12V-P		WATER CLEAR	1500	3000	30°
BLF051URC-24V-P		WATER CLEAR	1500	3000	30°
BLF051SGC-6V-P	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	100	300	30°
BLF051SGC-12V-P		WATER CLEAR	100	300	30°
BLF051SGC-24V-P		WATER CLEAR	100	300	30°
BLF051SYC-6V-P	SUPER BRIGHT YELLOW (InGaAlP)	WATER CLEAR	400	2000	30°
BLF051SYC-12V-P		WATER CLEAR	400	2000	30°
BLF051SYC-24V-P		WATER CLEAR	400	2000	30°

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.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Red (UR) Super Bright Green (SG) Super Bright Yellow (SY)	660 565 595	nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Super Bright Red (UR) Super Bright Green (SG) Super Bright Yellow (SY)	20 30 20	nm	IF=20mA
I_F	Forward Current	Super Bright Red (UR) Super Bright Green (SG) Super Bright Yellow (SY)	25 25 20	mA	VF=6V VF=12V VF=24V
I_R	Reverse Current	All	10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Super Bright Red	Super Bright Green	Super Bright Yellow	Units
Power dissipation (6V)	310	310	310	mW
Power dissipation (12V)	355	355	355	mW
Power dissipation (24V)	550	550	550	mW
Derating Linear from 50°C	0.25	0.4	0.4	mA
Reverse Voltage	5	5	5	V
Operating/Storage Temperature	-40 °C To +85 °C			