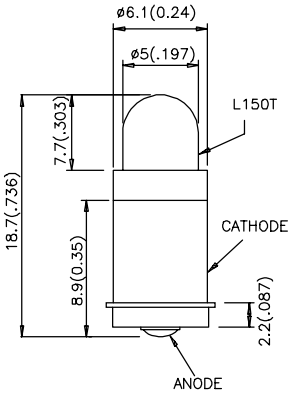
BLF052 SERIES

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.

Package Dimensions



Description

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

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

The Super Bright Yellow source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

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.	Typ.	2θ1/2
BLF052SURC/E-6V	HYPER RED (InGaAlP)	WATER CLEAR	1000	2000	45°
BLF052SURC/E12V		WATER CLEAR	1000	2000	45°
BLF052SURC/E24V		WATER CLEAR	1000	2000	45°
BLF052MGC-6V-P	MEGA GREEN (InGaAlP)	WATER CLEAR	400	1000	45°
BLF052MGC-12V-P		WATER CLEAR	400	1000	45°
BLF052MGC-24V-P		WATER CLEAR	400	1000	45°
BLF052SYC-6V-P	SUPER BRIGHT YELLOW (InGaAlP)	WATER CLEAR	400	1000	45°
BLF052SYC-12V-P		WATER CLEAR	400	1000	45°
BLF052SYC-24V-P		WATER CLEAR	400	1000	45°

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
λpeak	Peak Wavelength	Hyper Red Mega Green (MG) Super Bright Yellow (SY)	640 565 590	nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Hyper Red Mega Green (MG) Super Bright Yellow (SY)	20 30 20	nm	IF=20mA
I_F	Forward Current	Hyper Red	25	mA	VF=6V
		Mega Green (MG)	23		
		Super Bright Yellow (SY)	25		
I_F	Forward Current	Hyper Red	21	mA	VF=12V
		Mega Green (MG)	21		
		Super Bright Yellow (SY)	25		
I_F	Forward Current	Hyper Red	16	mA	VF=24V
		Mega Green (MG)	16		
		Super Bright Yellow (SY)	16		
I_R	Reverse Current	All	10	uA	VR= 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Hyper Red	Mega Green	Super Bright Yellow	Units
Power dissipation (6V)	160	150	150	mW
Power dissipation (12V)	270	250	300	mW
Power dissipation (24V)	380	380	380	mW
Derating Linear from 50°C	0.4	0.4	0.4	mA
Reverse Voltage	5	5	5	V
Operating/Storage Temperature	-40 °C To +85 °C			