

BL0106-15-39

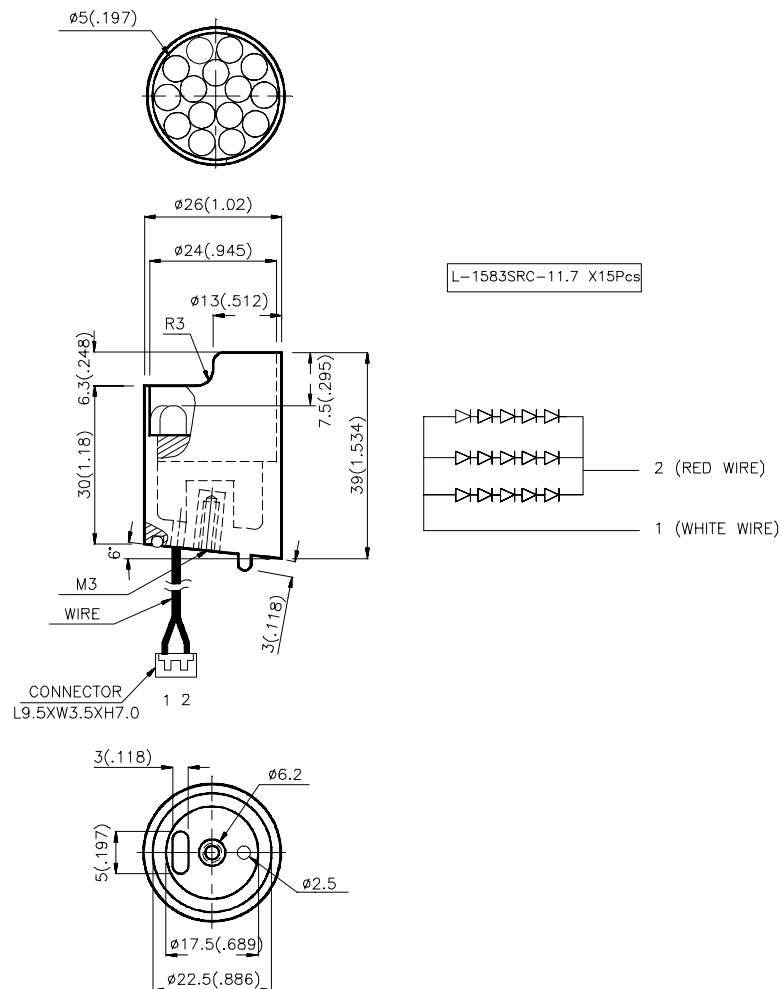
Features

- HIGH VISIBILITY.
- NO. OF BUILT-IN 3mm LED LAMPS: SUPER BRIGHT RED 15 PCS.
- WATERPROOF PACKAGE WITH HOOD SUITABLE FOR OUTDOOR AND INDOOR INFORMATION BOARDS.
- CAN PRODUCE ANY COLOR IN VISIBLE SPECTRUM, INCLUDING WHITE LIGHT.

Description

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

Selection Guide

Part No.	Emitting Color +Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	IF (mA)
				Min.	Typ.		
BL0104-21-72	GaAlAs	640	WATER CLEAR	800	1800	40°	20

Note:

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

Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

Symbol	Parameter	Device	Color	Min.	Typ.	Max.	Units	Test Conditions
Iv	Luminous Intensity	BL0106-15-39	Super Bright Red	-	12000	-	mcd	IF=60mA
θ	Viewing Angle		Super Bright Red	-	40	-	Deg	-
V_F	Forward Voltage		Super Bright Red	-	9.3	12.5	V	IF=60mA
λ_{peak}	Peak Wavelength		Super Bright Red	-	660	-	nm	IF=60mA
λ_D	Dominant Wavelength		Super Bright Red	-	640	-	nm	IF=60mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth		Super Bright Red	-	20	-	nm	IF=60mA
I_R	Reverse Current		Super Bright Red	-	-	30	uA	VR = 5V

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

Parameter	Super Bright Red	Units
Power dissipation	1000	mW
DC Forward Current	90	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	