

BL0709-18-76 SUPER BRIGHT RED / BLUE  
SUPER BRIGHT GREEN

### Features

- HIGH VISIBILITY.
- WATER PROOF 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.

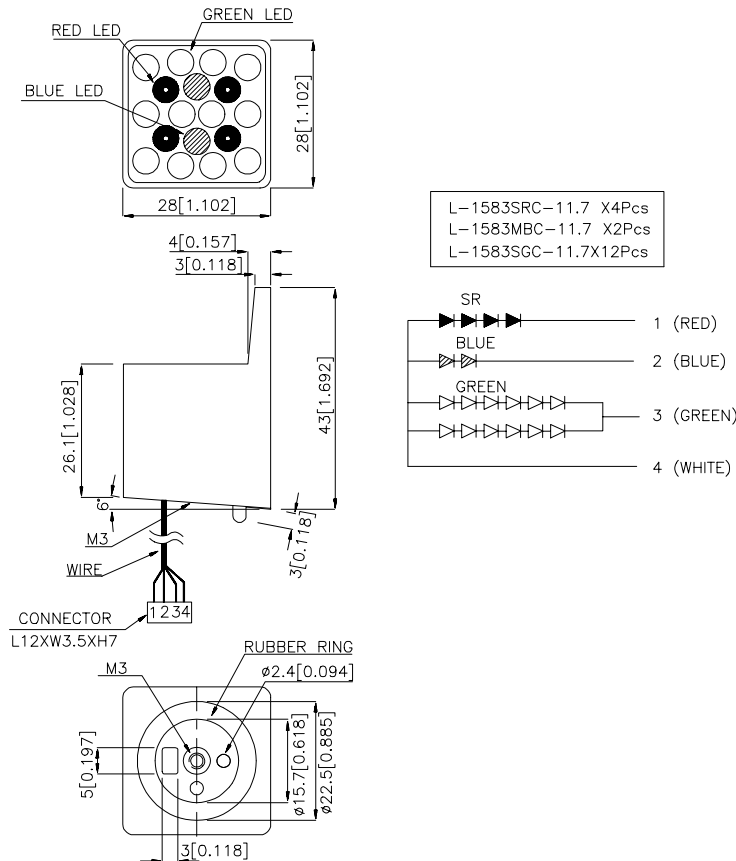
The Blue source color devices are made with GaN on SiC Light Emitting Diode.

Static electricity and surge damage the LEDs. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

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. Specifications are subjected to change without notice.

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

Symbol	Parameter	Device	TYPE	Min.	Typ.	Max.	Units	Test Conditions
$I_V$	Luminous Intensity	BL0709-18-76	SR	900	1800		mcd	$I_F=20\text{mA}$
			MB	18	70			$I_F=20\text{mA}$
			SG	650	1200			$I_F=20\text{mA}$
$2\theta_{1/2}$	Viewing Angle				40		deg	
$V_F$	Forward Voltage		SR		7.4	10	V	$I_F=20\text{mA}$
			MB		7.6	9		$I_F=20\text{mA}$
			SG		13.2	15		$I_F=40\text{mA}$
$\lambda_P$	Peak Wavelength		SR		660		nm	$I_F=20\text{mA}$
			MB		430			$I_F=20\text{mA}$
			SG		565			$I_F=40\text{mA}$
$\lambda_D$	Dominant Wavelength	SR		640		nm	$I_F=20\text{mA}$	
		MB		466			$I_F=20\text{mA}$	
		SG		568			$I_F=40\text{mA}$	
$\Delta\lambda_{1/2}$	Spectral Line Half-width	SR		20		nm	$I_F=20\text{mA}$	
		MB		60			$I_F=20\text{mA}$	
		SG		30			$I_F=40\text{mA}$	
$I_R$	Reverse Current					40	$\mu\text{A}$	$V_R = 5\text{V}$

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

Parameter	Type	Units	
Power dissipation	SR	1100	mW
	MB		
	SG		
DC Forward Current	SR	30	mA
	MB	30	
	SG	50	
Reverse Voltage	5	V	
Operating Temperature	-40 To +70	$^{\circ}\text{C}$	
Storage Temperature	-40 To +85	$^{\circ}\text{C}$	