

## T-1 3/4 (5mm) SOLID STATE LAMP

L-1503SRC-D

SUPER BRIGHT RED

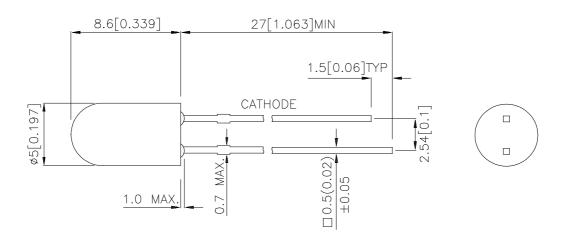
#### **Features**

- •LOW POWER CONSUMPTION.
- •VERSATILE MOUNTING ON P.C. BOARD OR PANEL.
- •T-1 3/4 DIAMETER FLANGELESS PACKAGE.
- •RELIABLE AND RUGGED.
- •RoHS COMPLIANT.

## **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 from the package.
- 4. Specifications are subject to change without notice.

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APPROVED: J. Lu CHECKED: Allen Liu DRAWN: Y.CHENG

# Kingbright

### **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	201/2
L-1503SRC-D	SUPER BRIGHT RED (GaAlAs)	WATER CLEAR	900	1500	30°

#### Note:

# Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660		nm	IF=20mA
λD	Dominant Wavelength	Super Bright Red	640		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	IF=20mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Super Bright Red	1.85	2.5	V	IF=20mA
lR	Reverse Current	Super Bright Red		10	uA	VR = 5V

# Absolute Maximum Ratings at Ta=25°C

Parameter	Super Bright Red	Units			
Power dissipation	100	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	155	mA			
Reverse Voltage	5	V			
Operating/Storage Temperature	perating/Storage Temperature -40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	ad Solder Temperature [3] 260°C For 5 Seconds				

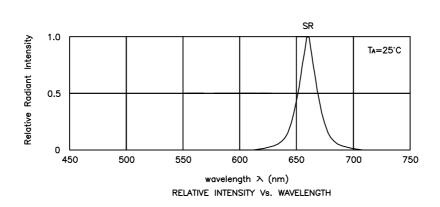
#### Notes

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

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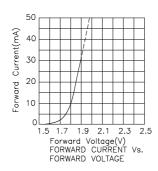
 $<sup>1.\,\</sup>theta1/2$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

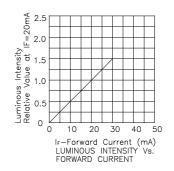
# **Kingbright**

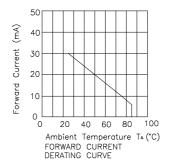


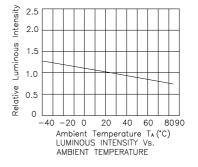
# **Super Bright Red**

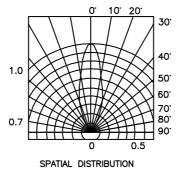
### L-1503SRC-D











#### Pamarke:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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