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

L-7113SRD-F

SUPER BRIGHT RED

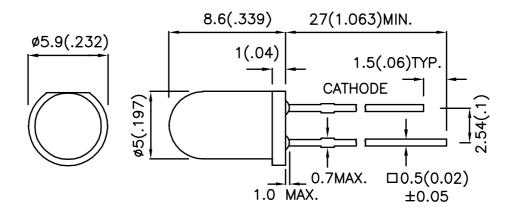
#### **Features**

- •LOW POWER CONSUMPTION.
- ●POPULAR T-1 3/4 DIAMETER PACKAGE.
- •GENERAL PURPOSE LEADS.
- •RELIABLE AND RUGGED.
- •LONG LIFE SOLID STATE RELIABILITY.
- •AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.

## **Description**

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

## **Package Dimensions**



#### vNotes

- 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 leads emerge from the package.
- 4. Specifications are subject to change without notice.

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# Kingbright

### **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
		,	Min.	Тур.	<b>2</b> θ <b>1/2</b>
L-7113SRD-F	SUPER BRIGHT RED (GaAIAs)	RED DIFFUSED	480	600	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	I=20mA
λD	Dominant Wavelength	Super Bright Red	640		nm	I=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	I=20mA
С	Capacitance	Super Bright Red	45		pF	V <sub>F</sub> =0V;f=1MHz
VF	Forward Voltage	Super Bright Red	1.85	2.5	V	I=20mA
IR	Reverse Current	Super Bright Red		10	uA	V <sub>R</sub> = 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	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds	260°C For 5 Seconds			

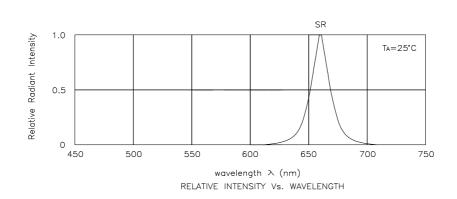
#### Notes:

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

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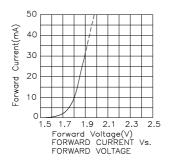
 $<sup>1.\,\</sup>theta 1/2$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

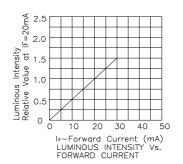
## Kingbright

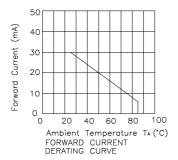


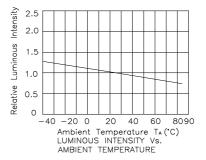
## **Super Bright Red**

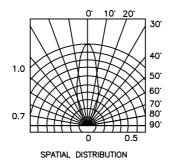
L-7113SRD-F











## Remarks:

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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