

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

L-7113SRD-E

SUPER BRIGHT RED

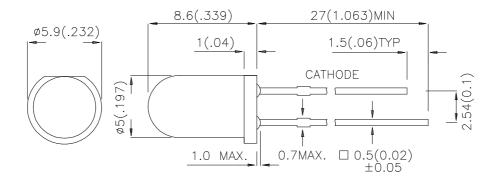
#### **Features**

- •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**



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

SPEC NO: DSAA5804 REV NO: V.5 DATE:MAR/23/2005 PAGE: 1 OF 3
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# Kingbright

### **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
		,	Min.	Тур.	201/2
L-7113SRD-E	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	280	400	30°

#### Note

# Electrical / Optical Characteristics at T<sub>A</sub>=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
İR	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	-40°C To +85°C	<u> </u>		
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

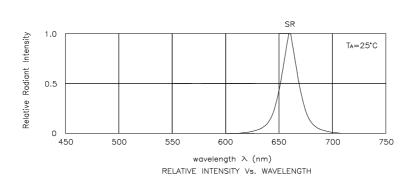
#### Notes

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

SPEC NO: DSAA5804 REV NO: V.5 DATE:MAR/23/2005 PAGE: 2 OF 3
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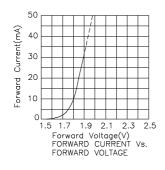
 $<sup>1. \</sup>theta 1/2$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

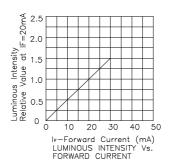
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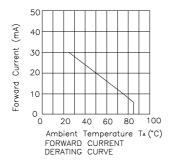


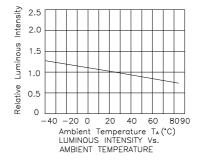
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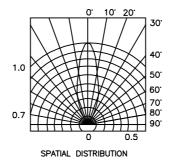
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#### Remarks:

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.

SPEC NO: DSAA5804 REV NO: V.5 DATE:MAR/23/2005 PAGE: 3 OF 3
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