

DATA SHEET

5mm LEDs

1	Order code	Manufacturer code	Description
	55-0136	L-7113SRD-D	5MM 300MCD SUPERBRIGHT RED (RC)

Emm I CDa	Page 1 of ₄
The enclosed information is believed to be correct, information may change 'without notice' due to	Revision A ⁴
product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	12/12/2006

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

P/N: L-7113SRD-D

SUPER BRIGHT RED

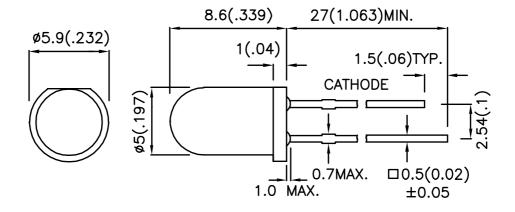
Features

- •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.

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Kingbright

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
		,	Min.	Тур.	2 θ 1/2
L-7113SRD-D	SUPER BRIGHT RED (GaAIAs)	RED DIFFUSED	180	250	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 _F =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 _R = 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		
Lead Solder Temperature [3]	d Solder Temperature [3] 260°C For 5 Seconds		

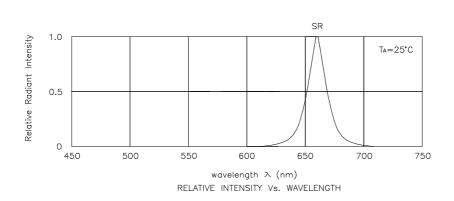
Notes:

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

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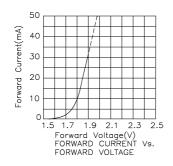
 $^{1. \}theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

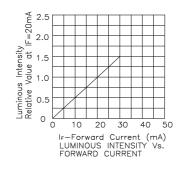
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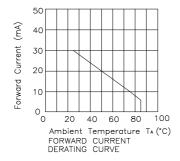


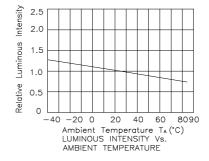
Super Bright Red

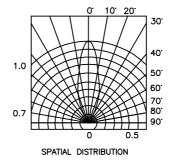
L-7113SRD-D











Remarks:

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

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

Note: Accuracy may depend on the sorting parameters.

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