Kingbright

T-1 3/4 (5mm) ROUND LED LAMP

L-7143SRC-C

SUPER BRIGHT RED

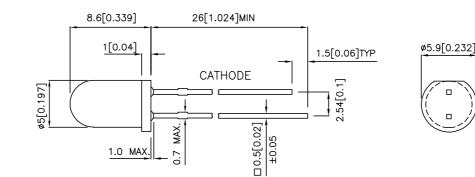
Features

- •OUTSTANDING MATERIAL EFFICIENCY.
- •RELIABLE AND RUGGED.
- ●IC COMPATIBLE/LOW CURRENT CAPABILITY.
- •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.

SPEC NO: DSAB8348 APPROVED: J. Lu

REV NO: V.5 CHECKED: Allen Liu

DATE: MAR/24/2005 DRAWN: S.H.CHEN

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Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle				
			Min.	Тур.	2 θ 1/2				
L-7143SRC-C	SUPER BRIGHT RED (GaAIAs)	WATER CLEAR	380	600	30°				

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660		nm	I _F =20mA
λD	Dominant Wavelength	Super Bright Red	640		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	I _F =20mA
С	Capacitance	Super Bright Red	45		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Super Bright Red	1.85	2.5	V	I _F =20mA
I _R	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]	260°C For 5 Seconds			

Notes:

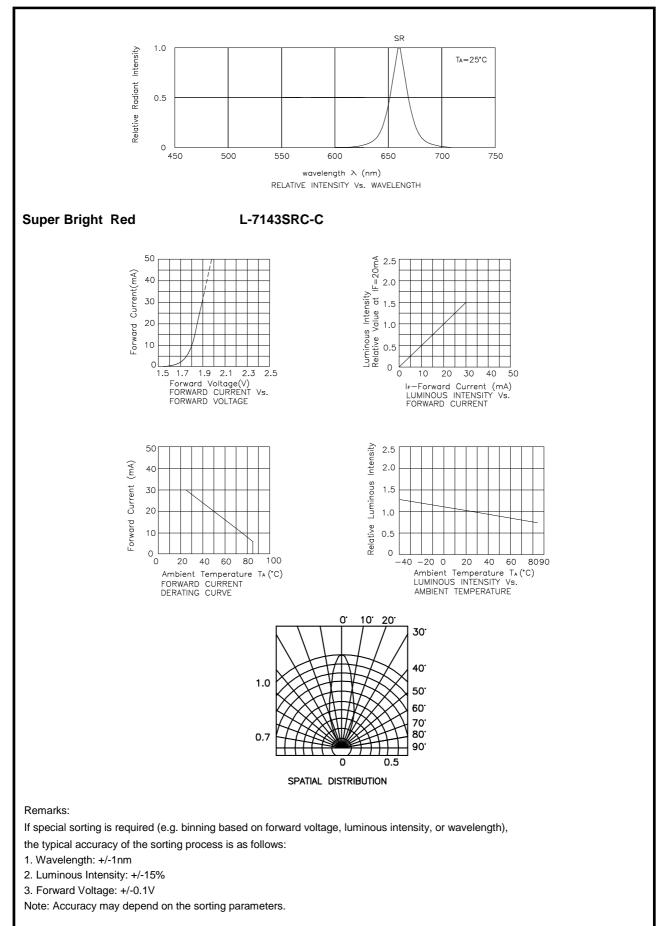
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

3. 5mm below package base.

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