Kingbright

2x5mm RECTANGULAR LED LAMP

L-113SRDT SUPER BRIGHT RED

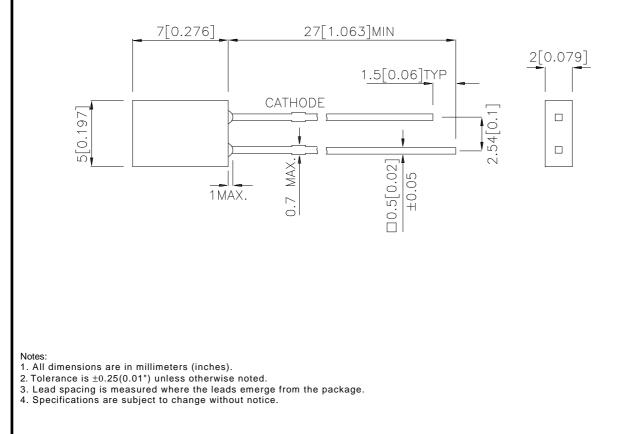
Features

- •LOW POWER CONSUMPTION.
- •RELIABLE AND RUGGED.
- •EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- •SUITABLE FOR LEVEL INDICATOR.
- •LONG LIFE SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

Description

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

Package Dimensions



REV NO: V.5 CHECKED: Allen Liu DATE: MAR/20/2005 DRAWN: H.Q.YUAN

Kingbright

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
i un no.	2.00		Min.	Тур.	2 θ 1/2
L-113SRDT	SUPER BRIGHT RED (GaAIAs)	RED DIFFUSED	36	80	110 °

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				

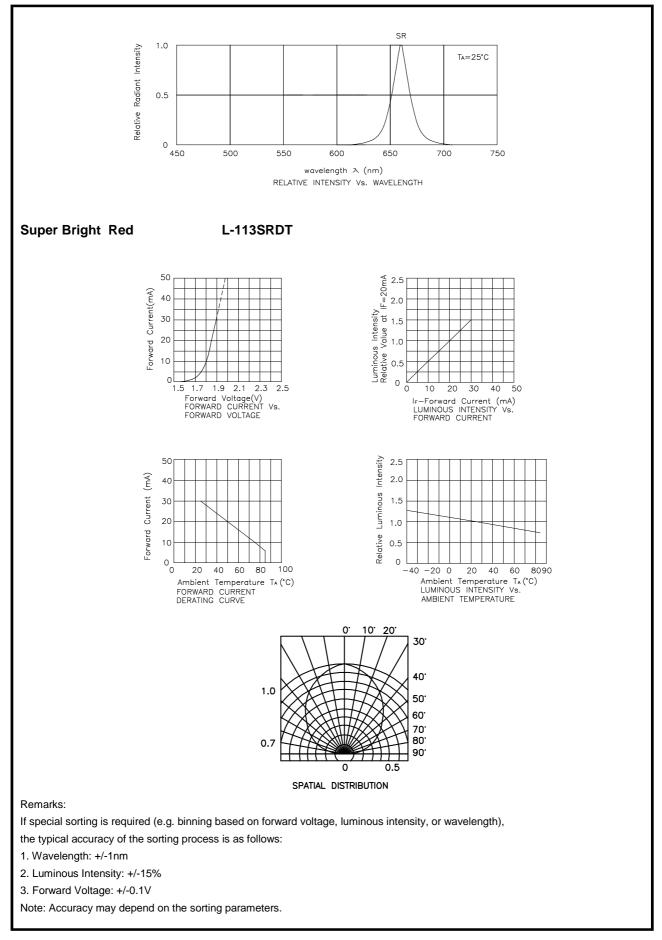
Notes:

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

2. 2mm below package base.

3. 5mm below package base.

Kingbright



REV NO: V.5 CHECKED: Allen Liu DATE: MAR/20/2005 DRAWN: H.Q.YUAN