

5x5mm SQUARE TOP LED LAMP

WP1553SRDT

SUPER BRIGHT RED

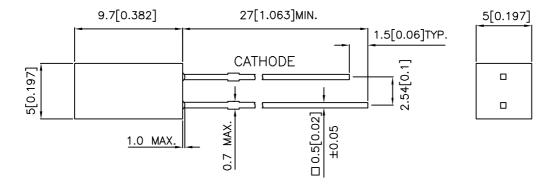
Features

- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- •RELIABLE AND RUGGED.
- •EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- •IDEAL AS FLUSH MOUNTED PANEL INDICATORS.
- •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



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 : DSAF2625
 REV NO : V.1
 DATE: APR/21/2005
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 APPROVED: J. Lu
 CHECKED: Allen Liu
 DRAWN: S.H.CHEN
 ERP:1101002185

Kingbright

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
	2.00	20.10 1,40	Min. Typ.		201/2
WP1553SRDT	SUPER BRIGHT RED (GaAIAs)	RED DIFFUSED	36	80	110°

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 _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			
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

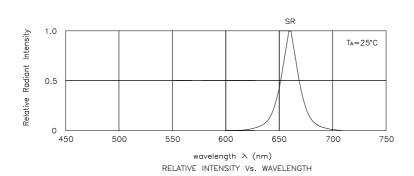
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

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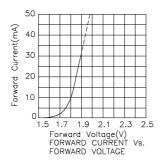
^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

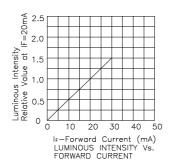
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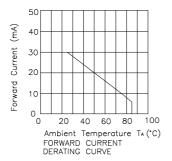


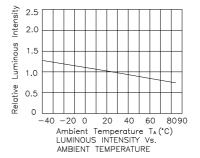
Super Bright Red

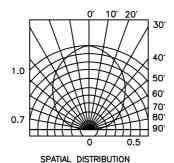
WP1553SRDT











Pamarke:

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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