

4mm CYLINDRICAL LED LAMP

WP1413SRDT

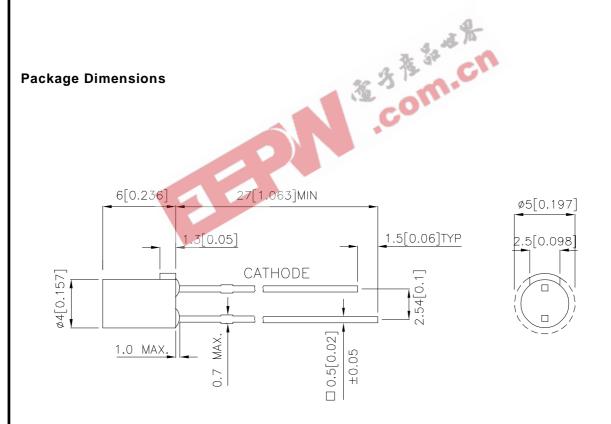
SUPER BRIGHT RED

Features

- CYLINDRICAL TYPE, FLAT TOP.
- CONVEX CATHODE MARK ON BODY.
- LOW POWER CONSUMPTION.
- I.C. COMPATIBLE.
- RELIABLE AND RUGGED.
- 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.



Notes:

- 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: DSAF2543
 REV NO: V.1
 DATE:APR/16/2005
 PAGE: 1 OF 3

 APPROVED: J. Lu
 CHECKED: Allen Liu
 DRAWN: B.H.LI
 ERP: 1101001466

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Selection Guide

Part No.	Dice	Lens Type	lv (m @ 20	,	Viewing Angle
		,	Min.	Тур.	201/2
WP1413SRDT	SUPER BRIGHT RED (GaAIAs)	RED DIFFUSED	50	80	100°

Note:

Electrical / Optical Characteristics at Ta=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	.31	nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20 🚜	34	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
lr	Reverse Current	Super Bright Red	C	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			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

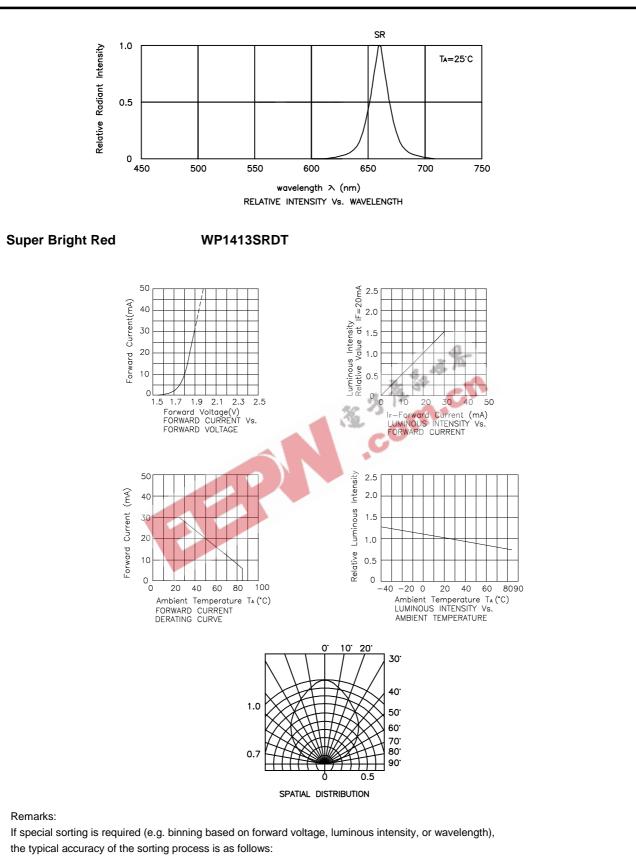
Notes

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

SPEC NO: DSAF2543 REV NO: V.1 DATE:APR/16/2005 PAGE: 2 OF 3
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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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- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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