## Kingbright

### 8mm ROUND LED LAMP

L-793SRD-E

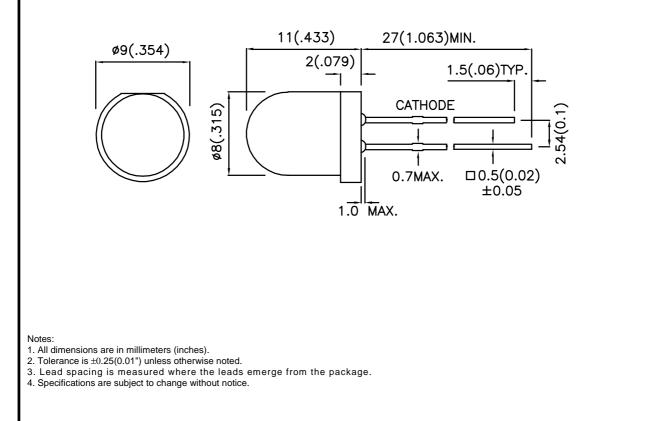
SUPER BRIGHT RED

### Features •8mm DIAMETER BIG LAMP. •WIDE VIEWING ANGLE. •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.

Package Dimensions



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Selection Gui	de				
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 0 1/2
L-793SRD-E	SUPER BRIGHT RED (GaAIAs)	RED DIFFUSED	380	450	60 <b>°</b>

Note:

1.  $\theta$ 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⊧=20mA
λD	Dominant Wavelength	Super Bright Red	640		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		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		10	uA	VR = 5V

#### Absolute Maximum Ratings at TA=25°C

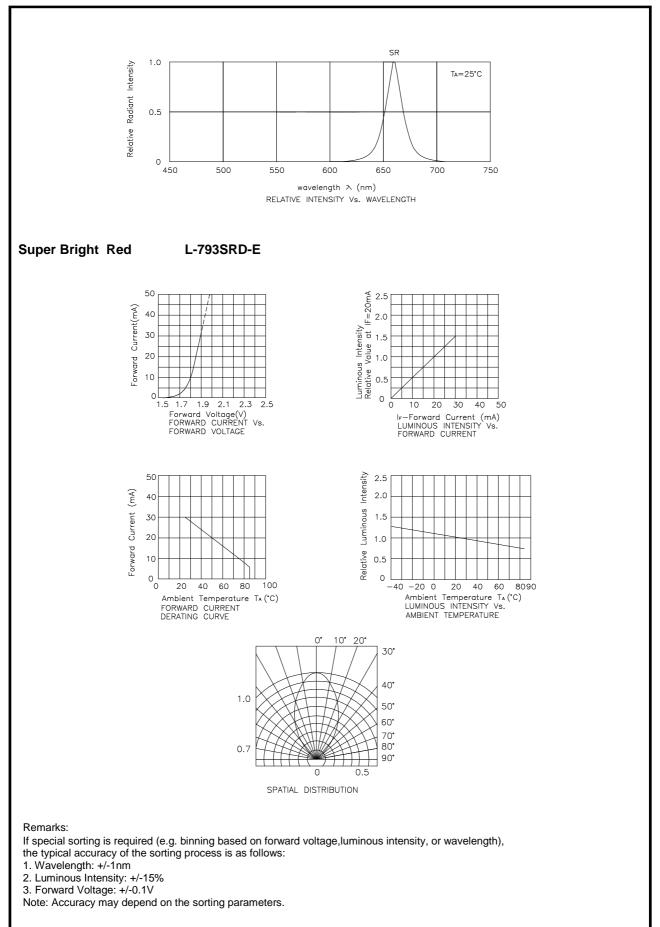
Parameter	Super Bright Red	Units		
Power dissipation	100	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	155	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	erating/Storage Temperature -40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C 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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