

T-1 3/4 (5mm) SOLID STATE LAMP

Part Number: L53HD

Bright Red

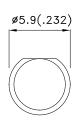
Features

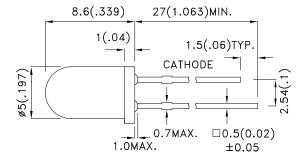
- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.

Description

The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

Package Dimensions





- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- Lead spacing is measured where the leads emerge from the package.
 Specifications are subject to change without notice.





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Selection Guide

Part No.	Dice	lv (mcd) [2] Dice Lens Type @ 10mA		,	Viewing Angle [1]
			Min.	Тур.	201/2
L53HD	Bright Red (GaP)	RED DIFFUSED	1.8	5	30°

Notes:

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Electrical / Optical Characteristics at TA 20 0									
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions			
λpeak	Peak Wavelength	Bright Red	700		nm	IF=20mA			
λD [1]	Dominant Wavelength	Bright Red	660		nm	IF=20mA			
Δλ1/2	Spectral Line Half-width	Bright Red	45		nm	IF=20mA			
С	Capacitance	Bright Red	40		pF	VF=0V;f=1MHz			
VF [2]	Forward Voltage	Bright Red	2.25	2.5	V	IF=20mA			
lr	Reverse Current	Bright Red		10	uA	VR = 5V			

Notes:

- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

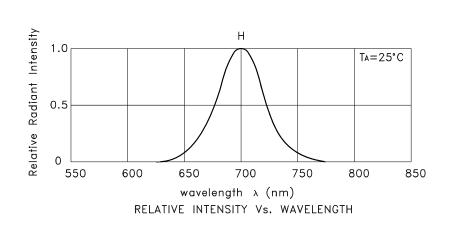
Absolute Maximum Ratings at TA=25°C

Parameter	ter Bright Red			
Power dissipation	62.5	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	130	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			

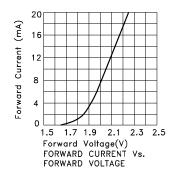
- Notes:
 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 2mm below package base.
 3. 5mm below package base.

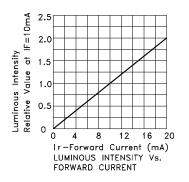
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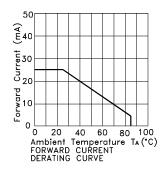
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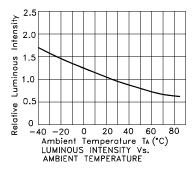


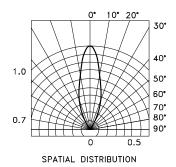
Bright Red L53HD







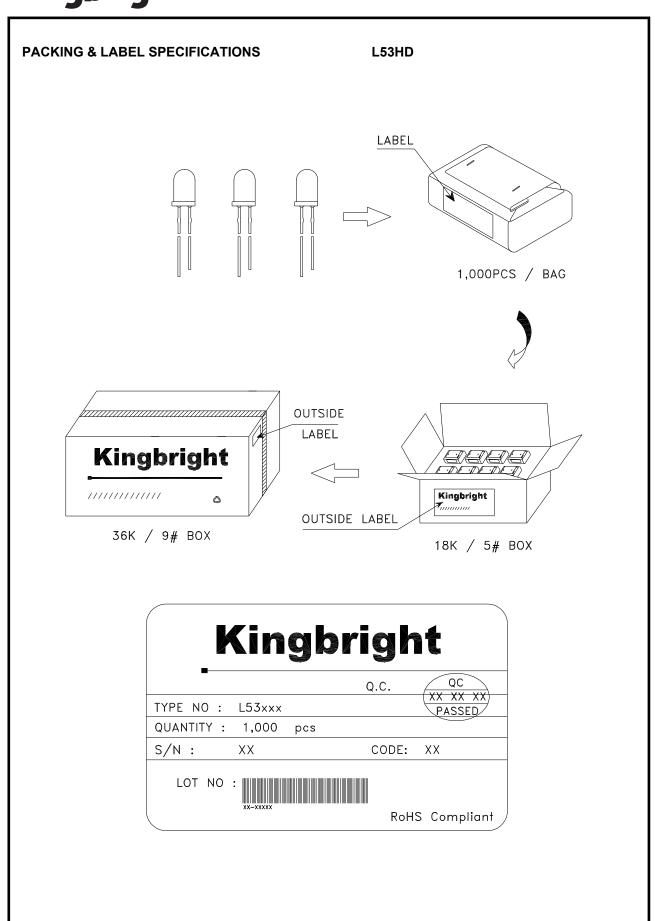




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