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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

Part Number: L53HD

**Bright Red** 

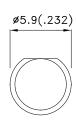
#### **Features**

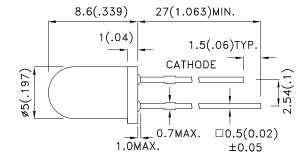
- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.

#### 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.





SPEC NO: DSAE0026 **REV NO: V.3 DATE: SEP/01/2007** PAGE: 1 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu DRAWN: C.WANG** ERP: 1101005024

# Kingbright

#### **Selection Guide**

Part No.	Dice	Lens Type	Lens Type Iv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min.		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 7 Optical Characteristics at 1A 20 C									
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.

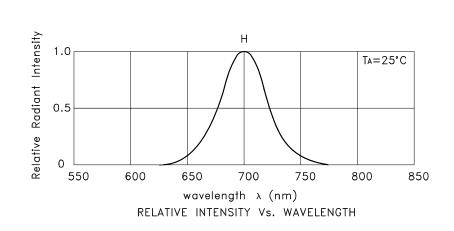
Absolute Maximum Ratings at TA=25°C

arameter Bright Red		Units		
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			

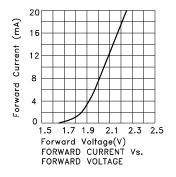
- Notes:
  1. 1/10 Duty Cycle, 0.1ms Pulse Width.
  2. 2mm below package base.
  3. 5mm below package base.

SPEC NO: DSAE0026 **REV NO: V.3** DATE: SEP/01/2007 PAGE: 2 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu DRAWN: C.WANG** ERP: 1101005024

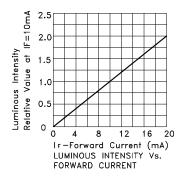
# Kingbright

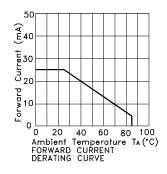


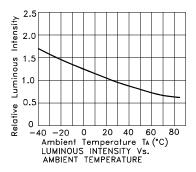
**Bright Red** 

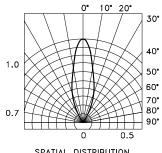


L53HD





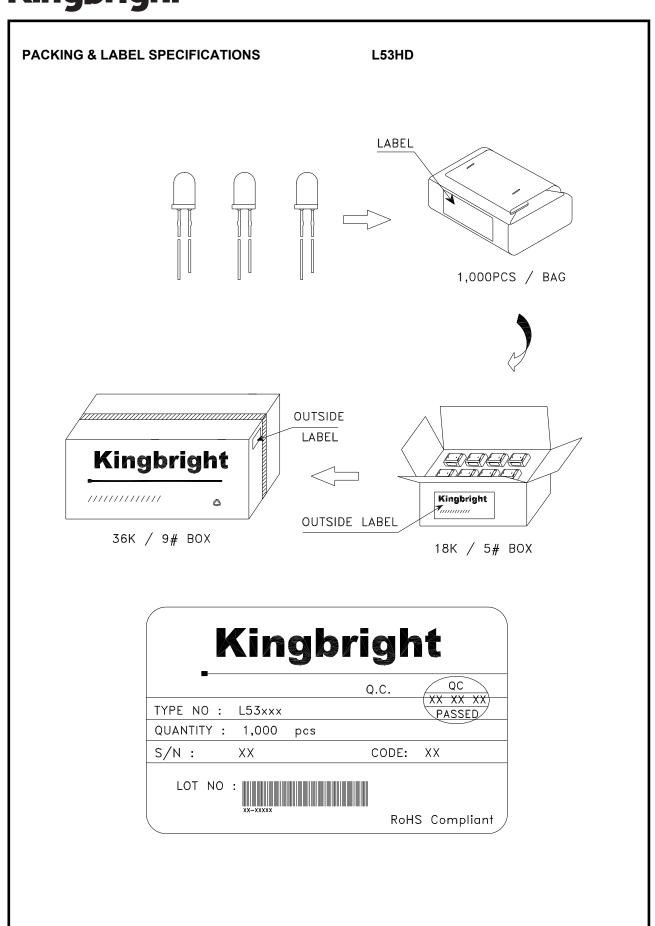




SPATIAL DISTRIBUTION

SPEC NO: DSAE0026 **REV NO: V.3** DATE: SEP/01/2007 PAGE: 3 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu** ERP: 1101005024 **DRAWN: C.WANG** 

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SPEC NO: DSAE0026 APPROVED: WYNEC REV NO: V.3 CHECKED: Allen Liu DATE: SEP/01/2007 DRAWN: C.WANG PAGE: 4 OF 4 ERP: 1101005024