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

Part Number: L53HD

Bright Red

Features Description • LOW POWER CONSUMPTION. The Bright Red source color devices are made with Gallium • POPULAR T-1 3/4 DIAMETER PACKAGE. Phosphide Red Light Emitting Diode. • GENERAL PURPOSE LEADS. • RELIABLE AND RUGGED. • LONG LIFE - SOLID STATE RELIABILITY. • AVAILABLE ON TAPE AND REEL. • RoHS COMPLIANT. **Package Dimensions** 8.6(.339) 27(1.063)MIN. ø5.9(.232) 1(.04) 1.5(.06)TYP CATHODE .197 3 54 ø5(0.7MAX. $\Box 0.5(0.02)$ 1.0MAX. ±0.05 Notes: 1. All dimensions are in millimeters (inches). 2. Tolerance is ±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	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]					
			Min.	Тур.	201/2					
L53HD	Bright Red (GaP)	RED DIFFUSED	1.8	5	30°					

Notes:

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

Electrical / Optical Characteristics at TA=25°C

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

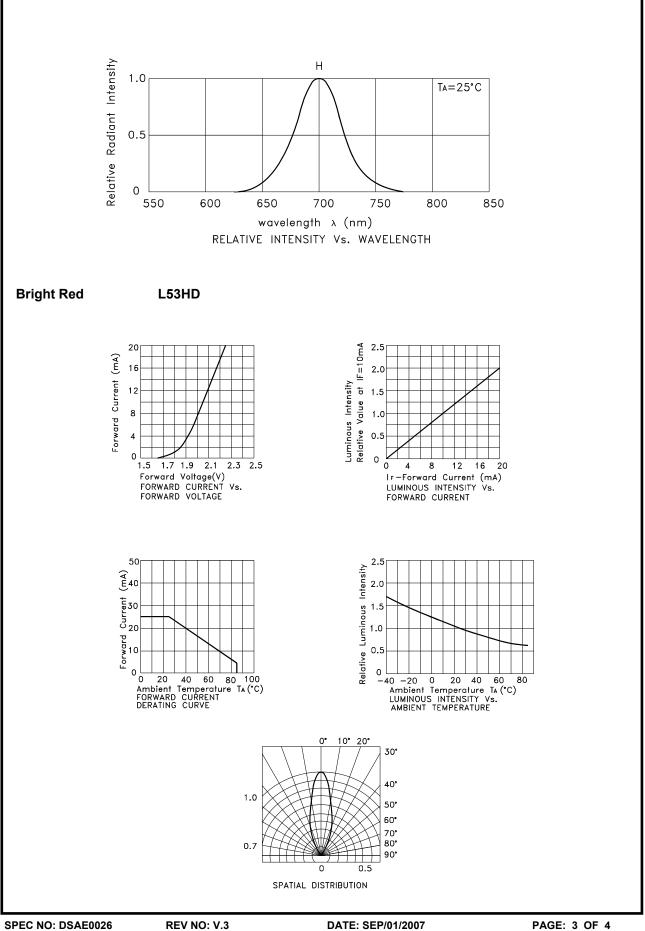
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	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.



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