### PRELIMINARY SPEC

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

Part Number: L-53LSURDK

Hyper Red

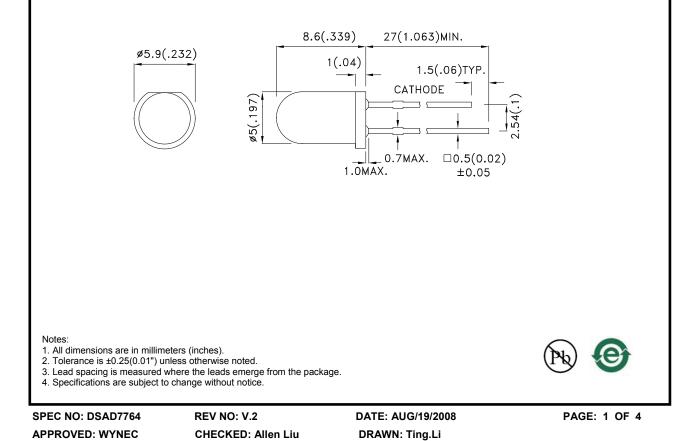
#### Features

- 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.
- Low current IF=2mA operating.
- RoHS compliant.

### Description

The Hyper Red source color devices are made with In-GaAIP on GaAs substrate Light Emitting Diode.

### **Package Dimensions**



### Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Тур.	201/2
L-53LSURDK	Hyper Red (InGaAIP)	RED DIFFUSED	28	80	60°

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	Hyper Red	650		nm	I⊧=2mA
λD [1]	Dominant Wavelength	Hyper Red	635		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	IF=2mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.75	2.5	V	I⊧=2mA
lr	Reverse Current	Hyper Red		10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

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

Parameter	Hyper Red	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	185	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.

