

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

L-57IID

HIGH EFFICIENCY RED

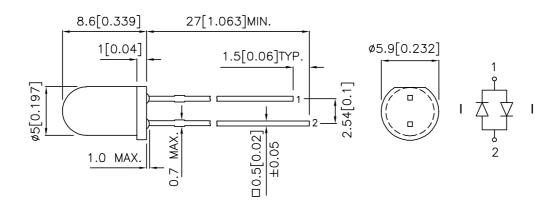
Features

- •LOW POWER CONSUMPTION.
- •I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.
- •RoHS COMPLIANT.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions



- 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	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	201/2
L-57IID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	7	20	60°
	HIGH EFFICIENCY RED (GaAsP/GaP)	KED DIFFUSED	7	20	

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA

Absolute Maximum Ratings at Ta=25°C

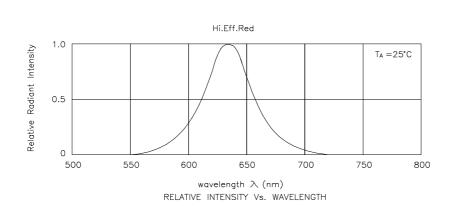
Parameter	High Efficiency Red		
Power dissipation	105		
DC Forward Current	30	mA	
Peak Forward Current [1]	160	mA	
Operating / storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

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

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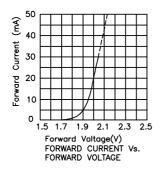
 $^{1. \, \}theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

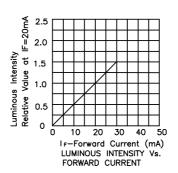
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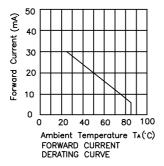


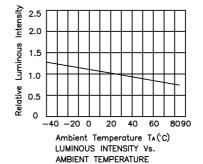
High Efficiency Red

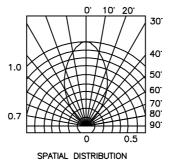
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Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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