

T-1 (3mm) SOLID STATE LAMP

Part Number: L-934IT

HIGH EFFICIENCY RED

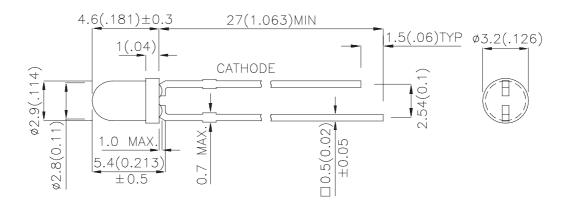
Features

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



Notes:

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

SPEC NO: DSAA4229 REV NO: V.8 DATE: JAN/29/2007 PAGE: 1 OF 3
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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 10mA		Viewing Angle[1]
			Min.	Тур.	2 0 1/2
L-934IT	HIGH EFFICIENCY RED (GaAsP/GaP)	RED TRANSPARENT	18	60	50°

- 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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD [1]	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 [2]	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA
lr	Reverse Current	High Efficiency Red		10	uA	V _R = 5V

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

Absolute Maximum Ratings at TA=25°C

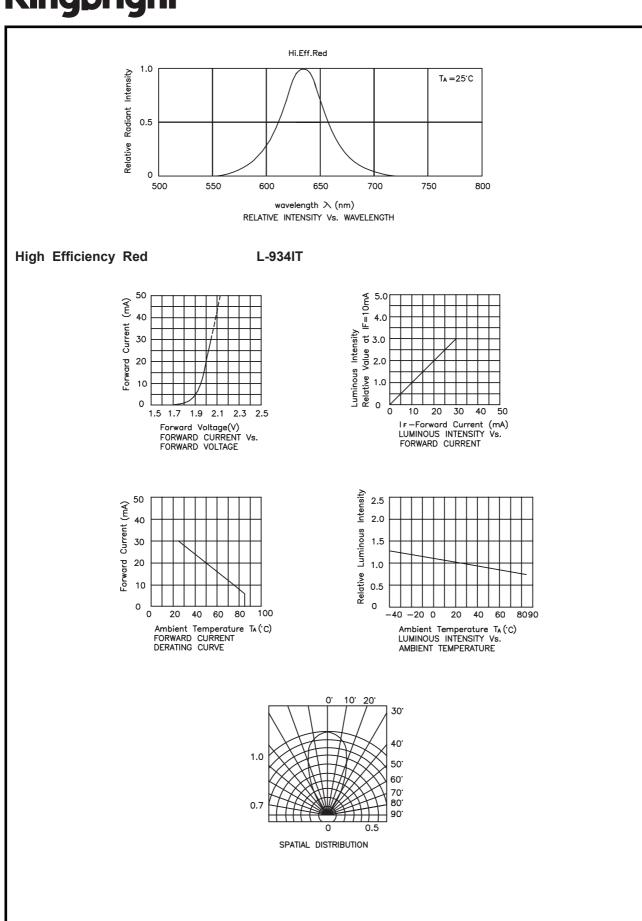
Parameter	High Efficiency Red	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
ead Solder Temperature [2] 260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds			

Notes:

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

SPEC NO: DSAA4229 **REV NO: V.8** DATE: JAN/29/2007 PAGE: 2 OF 3 APPROVED: J. Lu CHECKED: Allen Liu DRAWN: D.M.LIU

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SPEC NO: DSAA4229 REV NO: V.8 DATE: JAN/29/2007 PAGE: 3 OF 3
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