

### Features

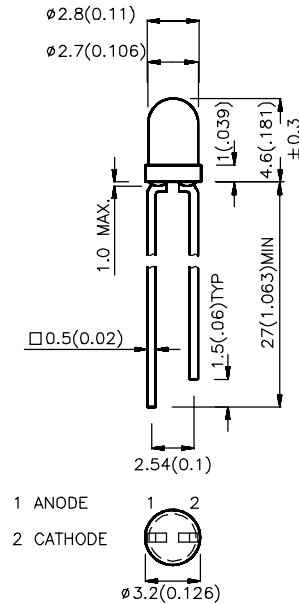
- 12 VOLT SERIES IN T-1 PACKAGES.
- INTEGRAL CURRENT LIMITING RESISTOR.
- NO EXTERNAL CURRENT LIMITER REQUIRED WITH 12 VOLT SUPPLY.
- COST EFFECTIVE - SAVE SPACE AND RESISTOR COST.
- WIDE VIEWING ANGLE.
- AVAILABLE IN ALL COLORS.
- 12V INTERNAL RESISTOR.

L934ID12V HIGH EFFICIENCY RED

### 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  $\pm 0.25(0.01)$ " unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

### Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) V=12V		Viewing Angle
			Min.	Typ.	2 $\theta$ 1/2
L934ID12V	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	8	20	60°

### Note:

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

## Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

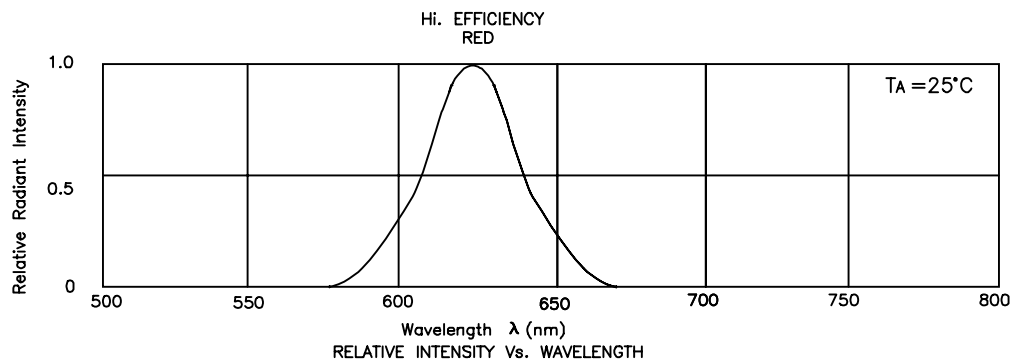
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{\text{peak}}$	Peak Wavelength	High Efficiency Red	627		nm	$V_F=12\text{V}$
$\lambda_D$	Dominate Wavelength	High Efficiency Red	625		nm	$V_F=12\text{V}$
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red	45		nm	$V_F=12\text{V}$
$I_F$	Forward Current	High Efficiency Red	8.5		mA	$V_F=12\text{V}$
$I_R$	Reverse Current	All		10	$\mu\text{A}$	$V_R = 5\text{V}$

## Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

Parameter	High Efficiency Red	Units
Power dissipation	120	mW
DC Forward Voltage	14	V
Reverse Voltage	5	V
Operation Temperature	$-40^\circ\text{C}$ To $+70^\circ\text{C}$	
Storage Temperature	$-40^\circ\text{C}$ To $+85^\circ\text{C}$	
Lead Solder Temperature[1]	$260^\circ\text{C}$ For 5 Seconds	

### Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



## High Efficiency Red L934ID12V

