

Features

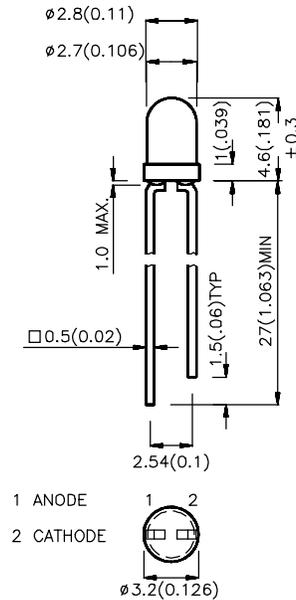
- 12 VOLT SERIES IN T-1 PACKAGES.
- INTEGRAL CURRENT LIMITING RESISTOR.
- NO EXTERNAL CURRENT LIMITER REQUIRED WITH 12 VOLT SUPPLY.
- COST EFFECTIVE - SAVE SPACE AND RESISTOR COST.
- WIDE VIEWING ANGLE.
- AVAILABLE IN ALL COLORS.
- 12V INTERNAL RESISTOR.

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 θ 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 $T_A=25^\circ\text{C}$

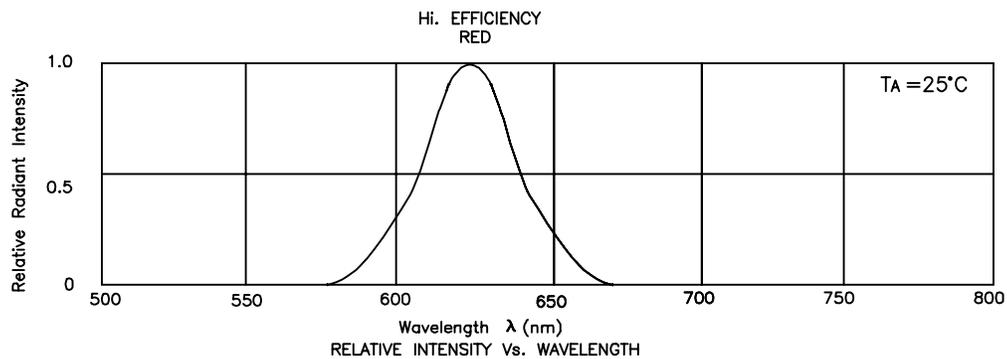
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red	627		nm	$V_F=12\text{V}$
λ_D	Dominate Wavelength	High Efficiency Red	625		nm	$V_F=12\text{V}$
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red	45		nm	$V_F=12\text{V}$
I_F	Forward Current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

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°C To $+70^\circ\text{C}$	
Storage Temperature	-40°C To $+85^\circ\text{C}$	
Lead Solder Temperature[1]	260°C For 5 Seconds	

Notes:

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



High Efficiency Red L934ID12V

