L934ID5V HIGH EFFICIENCY RED

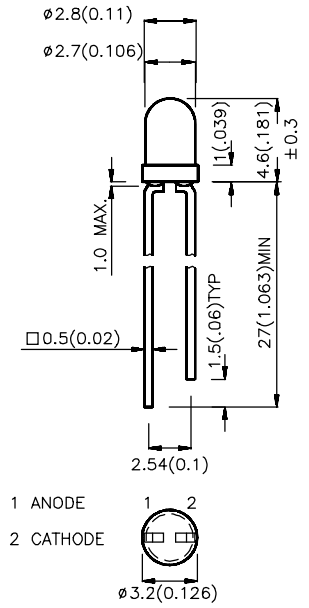
Features

- 5 VOLT SERIES IN T-1 PACKAGES.
- INTEGRAL CURRENT LIMITING RESISTOR.
- NO EXTERNAL CURRENT LIMITER REQUIRED WITH 5 VOLT SUPPLY.
- COST EFFECTIVE - SAVE SPACE AND RESISTOR COST.
- WIDE VIEWING ANGLE.
- AVAILABLE IN ALL COLORS.
- 5V INTERNAL RESISTOR.

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 ±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=5V		Viewing Angle
			Min.	Typ.	2θ1/2
L934ID5V	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	8	20	60°

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

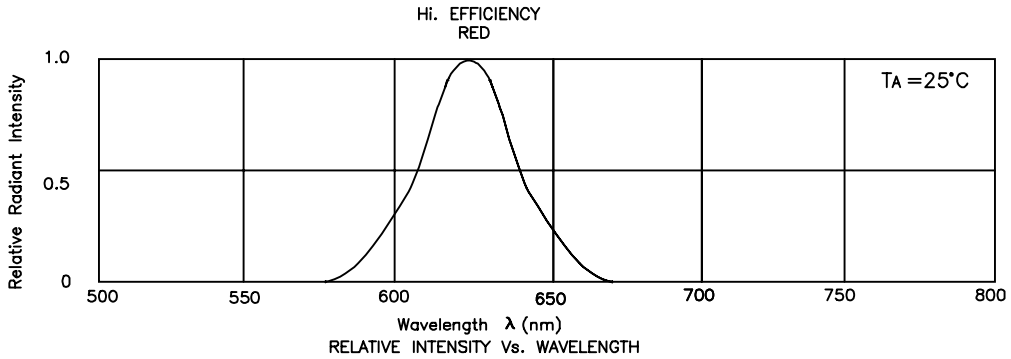
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	VF=5V
λ D	Dominate Wavelength	High Efficiency Red	625		nm	VF=5V
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red	45		nm	VF=5V
I_F	Forward Current	High Efficiency Red	13		mA	VF=5V
I_R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

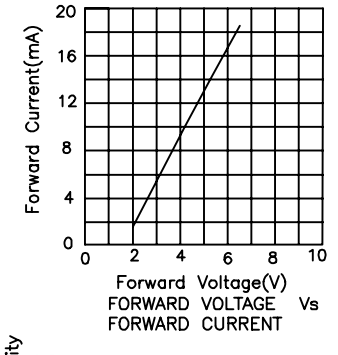
Parameter	High Efficiency Red	Units
Power dissipation	85	mW
DC Forward Voltage	6.5	V
Reverse Voltage	5	V
Operation Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[1]	260°C For 5 Seconds	

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

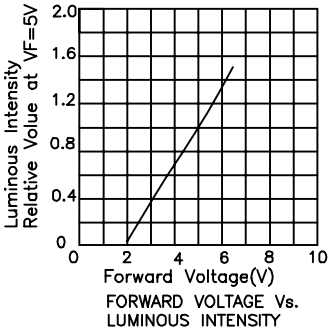


RELATIVE INTENSITY Vs. WAVELENGTH

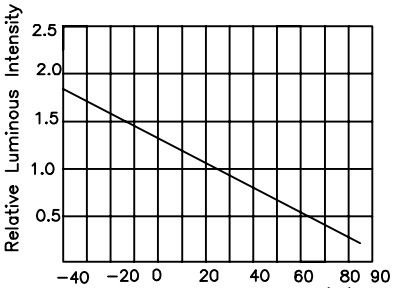
High Efficiency Red L934ID5V



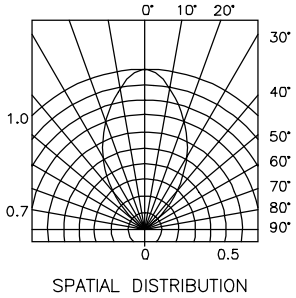
FORWARD VOLTAGE Vs
FORWARD CURRENT



FORWARD VOLTAGE Vs.
LUMINOUS INTENSITY



LUMINOUS iNTENSITY Vs.
AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION