

T-1 (3mm) LOW CURRENT LED LAMPS

L-934LI HIGH EFFICIENCY RED

L-934LY YELLOW

L-934LG GREEN

L-934LSR SUPER BRIGHT RED

Features

- •MINIMUM LUMINOUS INTENSITY SPECIFIED AT 2 mA.
- •HIGH LIGHT OUTPUT AT LOW CURRENTS.
- •LOW POWER CONSUMPTION.
- •LOW CURRENT REQUIREMENTS.
- •WIDE VIEWING ANGLE.
- •I.C. COMPATIBLE.
- •RELIABLE AND RUGGED.

Description

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode. The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

ø2.8(0.11) ø2.7(0.106) □0.5(0.02) 2.54(0.1) 1 ANODE 2 CATHODE

Package Dimensions

- 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 emer-
- ge package.

 4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 2 mA		Viewing Angle
			Min.	Max.	2 q1/2
L-934LID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	0.8	5	60°
L-934LGD	GREEN (GaP)	GREEN DIFFUSED	0.8	3.2	60°
L-934LYD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	0.8	3.2	60°
L-934LSRD	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	8	20	60°

Note: 1. θ 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°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 565 590 660		nm	IF=2mA	
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	IF=2mA	
С	Capacitance	High Efficiency Red Green Yellow Super Bright Red	12 45 10 95		pF	VF=0V;f=1MHz	
V _F	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red	1.7 1.9 1.8 1.65	2.0 2.2 2.1 1.95	V	IF=2mA	
I _R	Reverse Current	All	10		uA	VR = 5V	

Absolute Maximum Ratings at T_A =25°C

Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units	
Power dissipation	105	105	105	100	mW	
DC Forward Current	30	25	30	30	mA	
Peak Forward Current [1]	150	150	150	150	mA	
Reverse Voltage	5	5	5	5	٧	
Operating/Storage Temperature -40			°C To +85°C			
Lead Soldering Temperature [2]	260 ° C For 5 Seconds					

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





