

L-934LID	HIGH EFFICIENCY RED
L-934LGD	GREEN
L-934LYD	YELLOW
L-934LSRD	SUPER BRIGHT RED

Features

- LOW CURRENT $I_F=2\text{mA}$ OPERATING.
- HIGH LIGHT OUTPUT AT LOW CURRENTS.
- LOW POWER CONSUMPTION.
- LOW CURRENT REQUIREMENTS.
- WIDE VIEWING ANGLE.
- I.C. COMPATIBLE.
- RELIABLE AND RUGGED.

Description

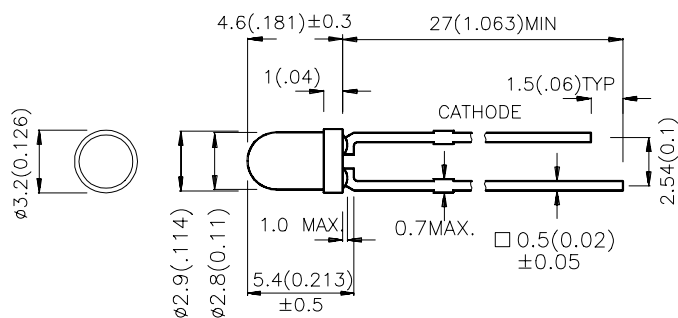
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode

The Green source color devices are made with Gallium Phosphide Green 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.

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 subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 2 mA		Viewing Angle
			Min.	Typ.	
L-934LID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	0.8	3	60°
L-934LGD	GREEN (GaP)	GREEN DIFFUSED	0.8	2	60°
L-934LYD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	0.8	2	60°
L-934LSRD	SUPER BRIGHT RED (GaAlAs)	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°C

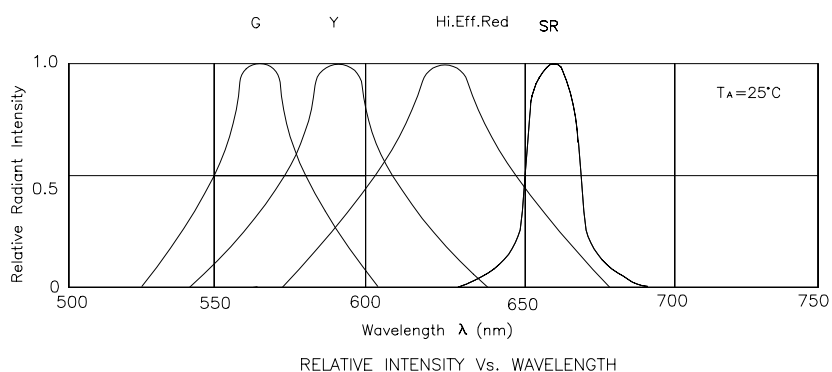
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 565 590 660		nm	IF=2mA
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red	627 568 588 640		nm	IF=2mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	IF=2mA
C	Capacitance	High Efficiency Red Green Yellow Super Bright Red	15 15 20 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red	1.75 1.9 1.8 1.65	2.5 2.5 2.1 2.5	V	IF=2mA
I _R	Reverse Current	All		10	uA	VR = 5V

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

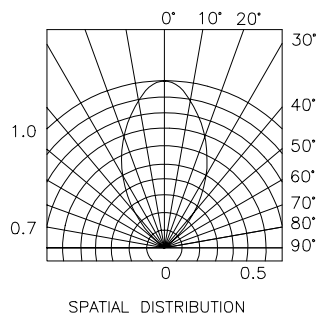
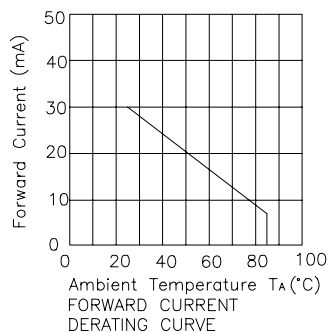
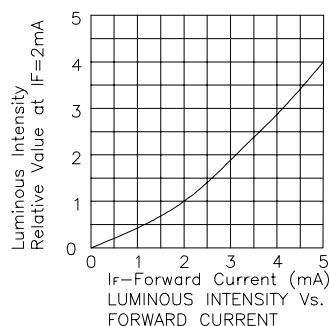
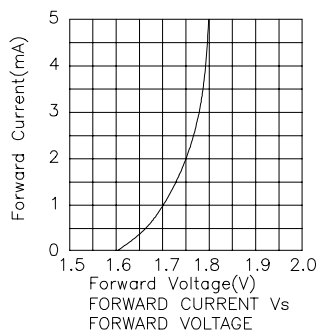
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	105	105	100	100	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	160	140	70	155	mA
Reverse Voltage	5	5	5	5	V
Operation/Storage Temperature	-40°C To $+85^{\circ}\text{C}$				
Lead Solder Temperature [2]	260 $^{\circ}\text{C}$ For 5 Seconds				

Notes:

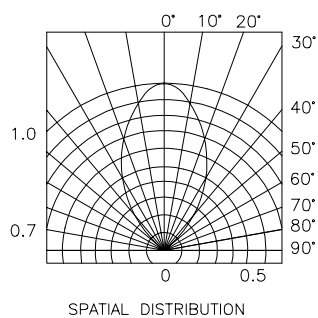
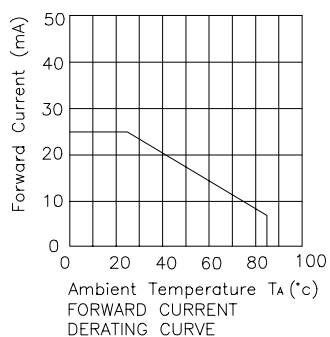
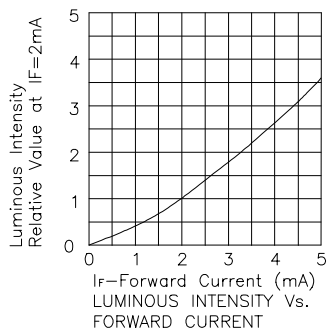
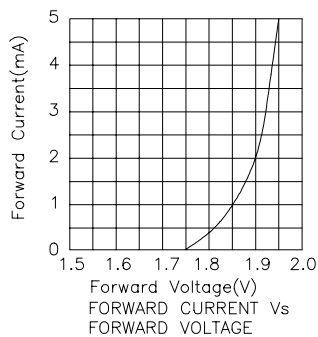
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



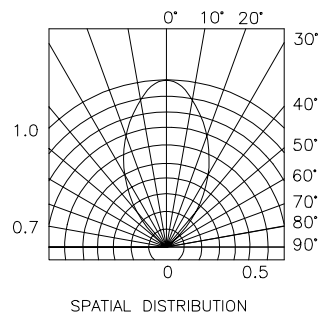
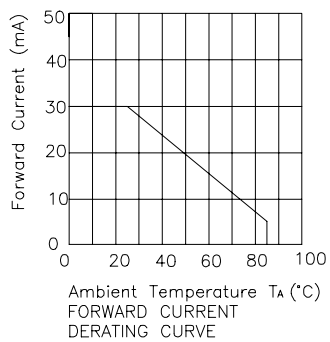
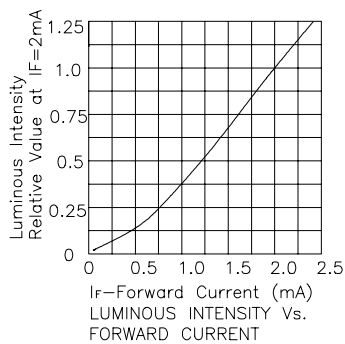
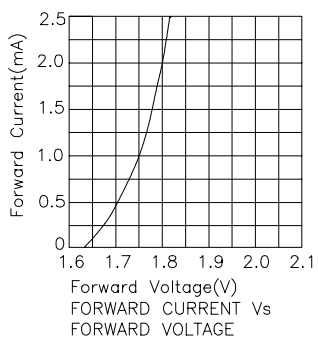
High Efficiency Red L-934LID



Green L-934LGD



Yellow L-934LYD



Super Bright Red L-934LSRD

