

L-934SA/1I1Y1GD HIGH EFFICIENCY RED
YELLOW / GREEN

Features

- TRI-LEVEL DESIGN.
- DIFFERENT COLOR COMBINATION AVAILABLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- HIGH RELIABILITY LIFE MEASURED IN YEARS.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.

Description

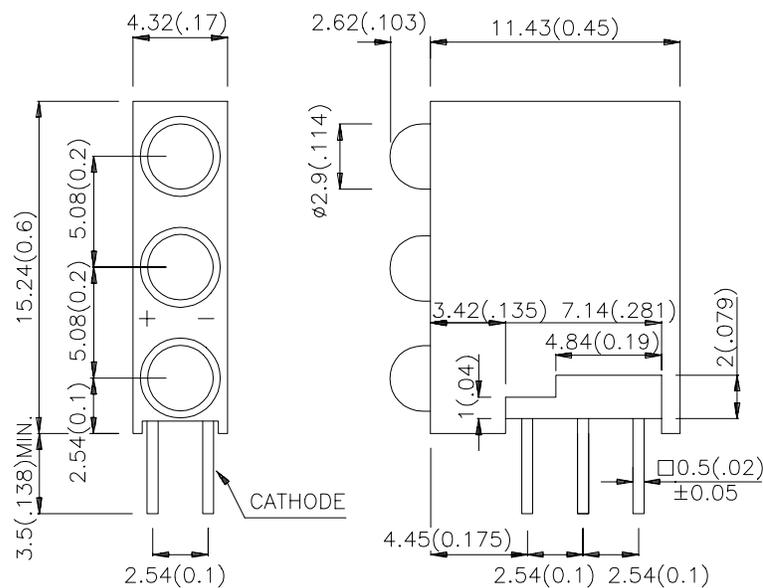
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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

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

Package Dimensions

LED 1 : RED
LED 2 : YELLOW
LED 3 : GREEN



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) @ 10 mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-934SA/111Y1GD	HIGH EFFICIENCY RED(GaAsP/GaP)	RED DIFFUSED	8	20	60°
	YELLOW(GaAsP/GaP)	YELLOW DIFFUSED	5	15	
	GREEN (GaP)	GREEN DIFFUSED	8	20	

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

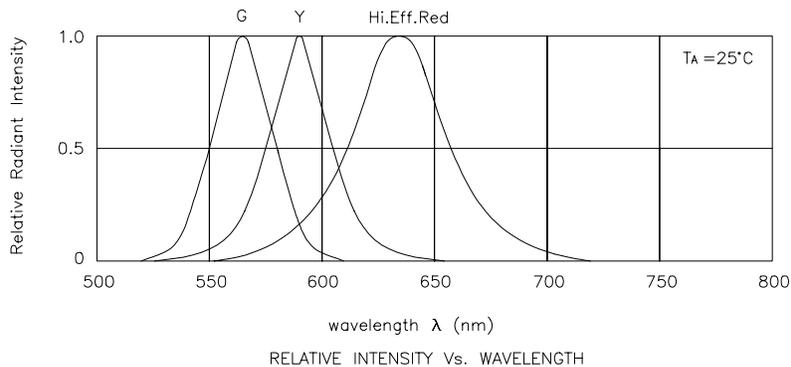
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	High Efficiency Red Yellow Green	627 590 565		nm	I _F =20mA
λ _D	Dominate Wavelength	High Efficiency Red Yellow Green	625 588 568		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	High Efficiency Red Yellow Green	45 35 30		nm	I _F =20mA
C	Capacitance	High Efficiency Red Yellow Green	15 20 15		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Yellow Green	2.0 2.1 2.2	2.5 2.5 2.5	V	I _F =20mA
I _R	Reverse Current	All		10	uA	V _R = 5V

Absolute Maximum Ratings at T_A=25°C

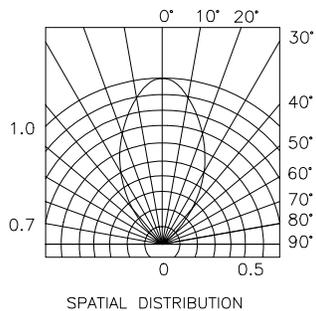
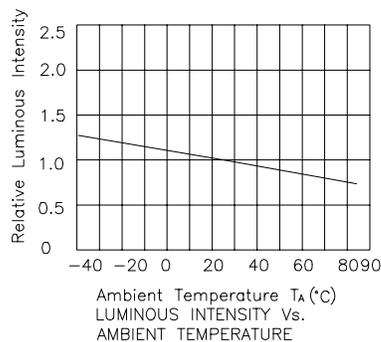
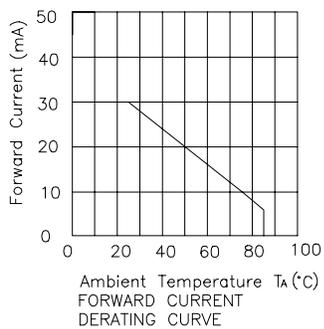
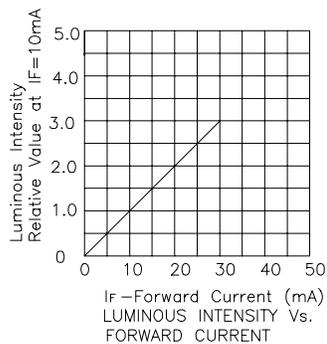
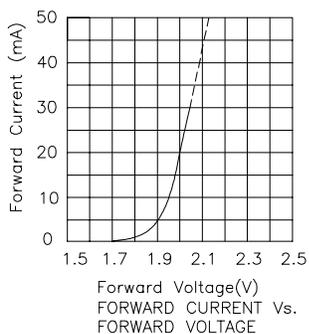
Parameter	High Efficiency Red	Yellow	Green	Units
Power dissipation	105	105	105	mW
DC Forward Current	30	30	25	mA
Peak Forward Current [1]	160	140	140	mA
Reverse Voltage	5			V
Operation/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 5 Seconds			

Notes:

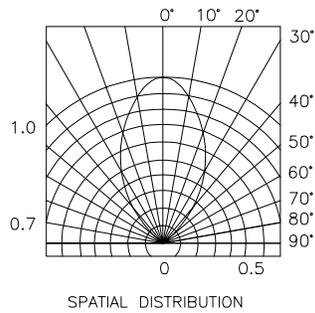
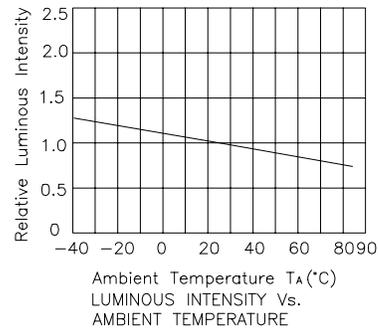
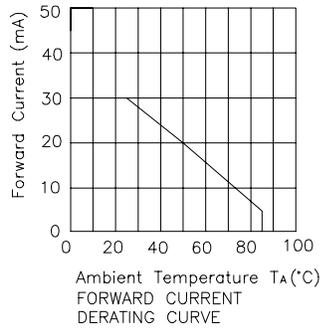
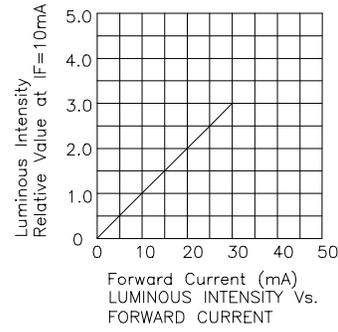
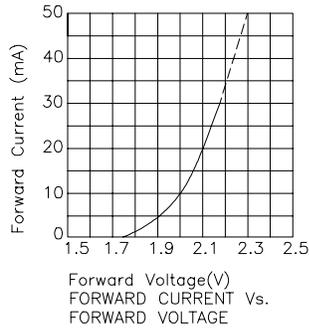
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.



L-934SA/1I1Y1GD High Efficiency Red



Yellow



Green

