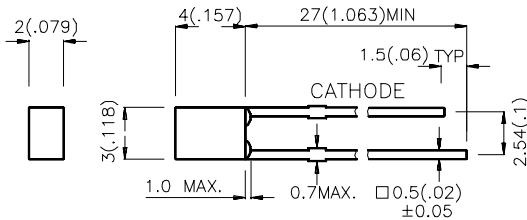


Package Dimensions

2 x 3mm RECTANGULAR SOLID LAMPS



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.

E914Ix	HIGH EFFICIENCY RED
E914ED	ORANGE
E914ET	HIGH EFFICIENCY RED
E914Gx	GREEN
E914Ax	YELLOW
E914PGT	PURE GREEN

Features

1. LOW POWER CONSUMPTION.
2. ULTRA BRIGHTNESS IS AVAILABLE .
3. RELIABLE AND RUGGED.
4. EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
5. SUITABLE FOR LEVEL INDICATOR.
6. LONG LIFE - SOLID STATE RELIABILITY.

Description

The High Efficiency Red and Orange 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 Pure Green source color devices are made with Gallium Phosphide Pure Green Light Emitting Diode.

Selection Guide

Part No.	Emitting Color +Material	$\lambda D(nm)$	Lens Type	Iv (mcd) @ 10 mA		Viewing Angle
				Min.	Typ.	$\theta 1/2$
E914ID	GaAsP/GaP	625	RED DIFFUSED	2	8	100°
E914IT	GaAsP/GaP	625	RED TRANSPARENT	3	8	90°
E914ED	GaAsP/GaP	625	ORANGE DIFFUSED	2	8	100°
E914ET	GaAsP/GaP	625	ORANGE TRANSPARENT	3	8	90°
E914GD	GaP	568	GREEN DIFFUSED	2	6	100°
E914GT	GaP	568	GREEN TRANSPARENT	3	8	90°
E914AD	GaAsP/GaP	588	AMBER DIFFUSED	2	5	100°
E914AT	GaAsP/GaP	588	AMBER TRANSPARENT	2	7	90°
E914PGT	GaP	555	GREEN TRANSPARENT	0.5	1	90°

Note:

1. $\theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

DATA NO :EA0260

REV NO : V1

DATE :SEP/05/2001

Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

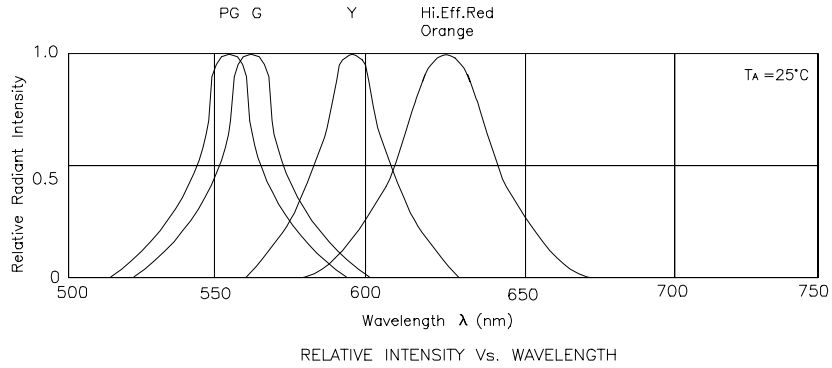
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Orange Green Yellow Pure Green	627 627 565 590 555		nm	$I_F=20\text{mA}$
λ_D	Dominant Wavelength	High Efficiency Red Orange Green Yellow Pure Green	625 625 568 588 555		nm	$I_F=20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Orange Green Yellow Pure Green	45 45 30 35 30		nm	$I_F=20\text{mA}$
C	Capacitance	High Efficiency Red Orange Green Yellow Pure Green	15 15 15 20 45		pF	$V_F=0\text{V}; f=1\text{MHz}$
V_F	Forward Voltage	High Efficiency Red Orange Green Yellow Pure Green	2.0 2.0 2.0 2.1 2.25	2.5 2.5 2.5 2.5 2.5	V	$I_F=20\text{mA}$
I_R	Reverse Current	All		10	μA	$V_R = 5\text{V}$

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

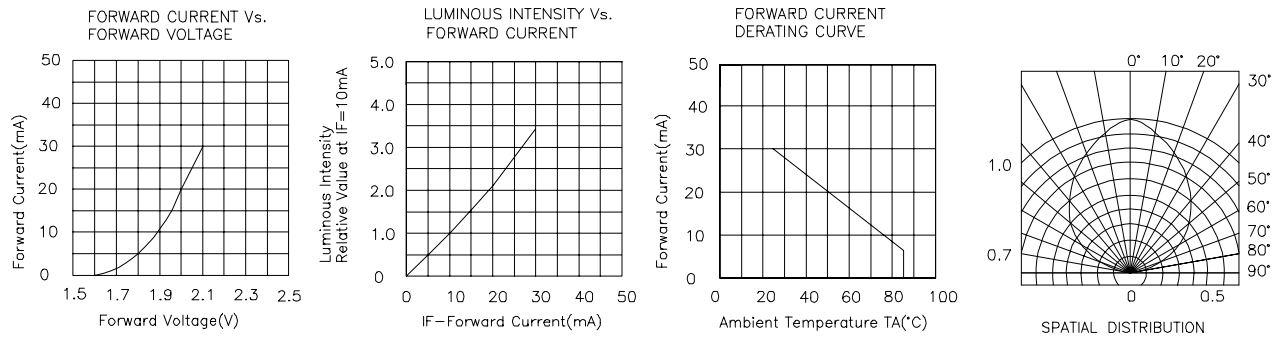
Parameter	High Efficiency Red	Orange	Green	Yellow	Pure Green	Units
Power dissipation	105	105	105	105	105	mW
DC Forward Current	30	30	25	30	25	mA
Peak Forward Current [1]	160	160	140	140	135	mA
Reverse Voltage	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C					
Lead Soldering Temperature [2]	260°C For 5 Seconds					

Notes:

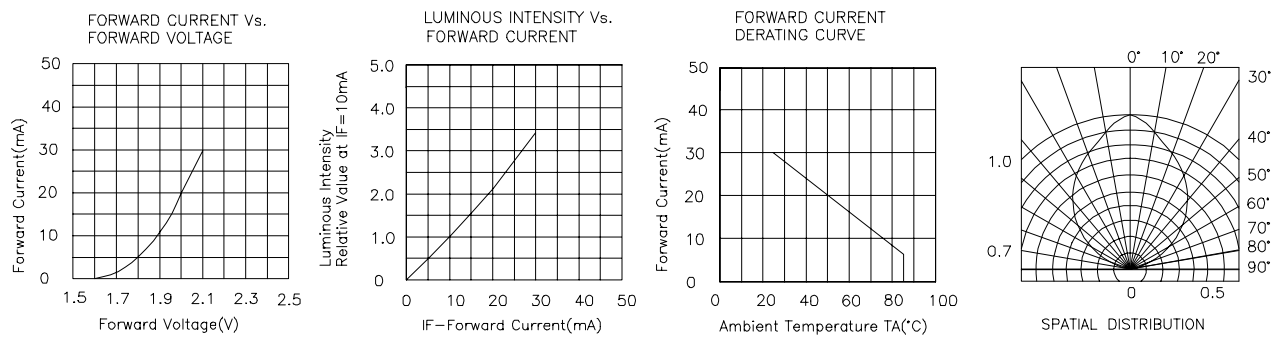
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



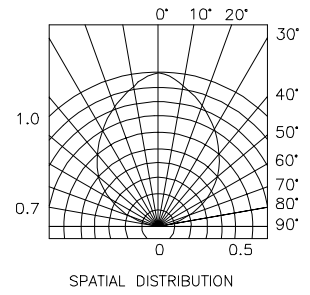
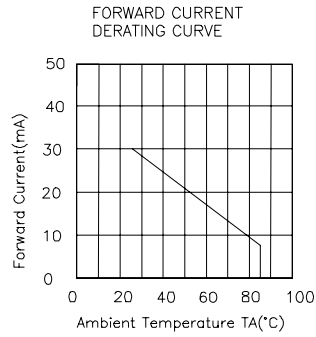
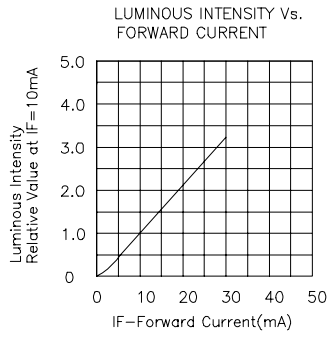
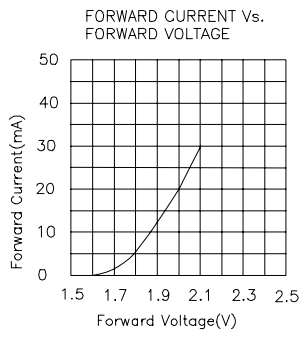
High Efficiency Red E914ID



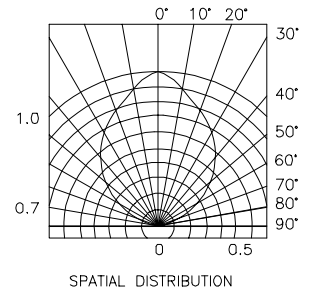
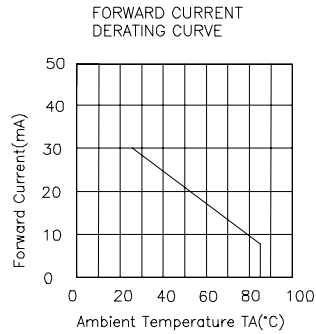
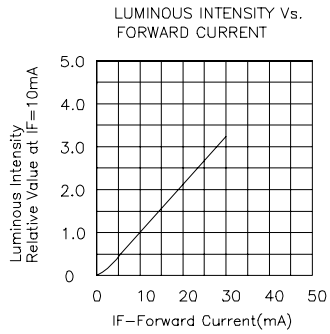
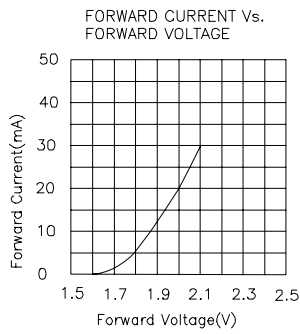
High Efficiency Red E914IT



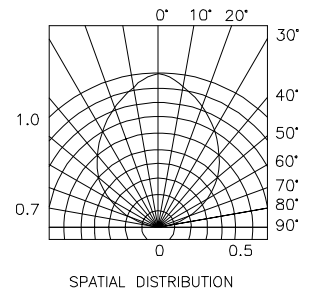
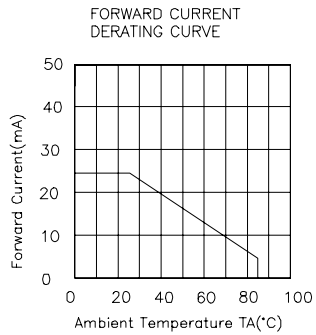
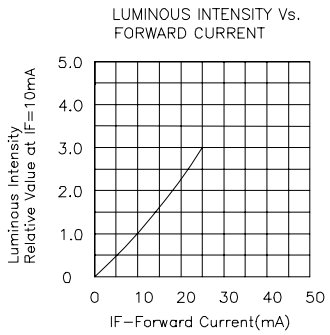
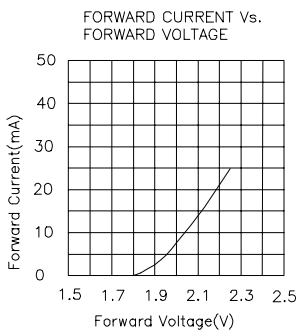
Orange E914ED



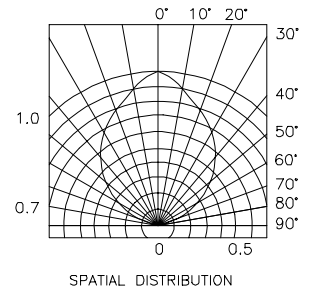
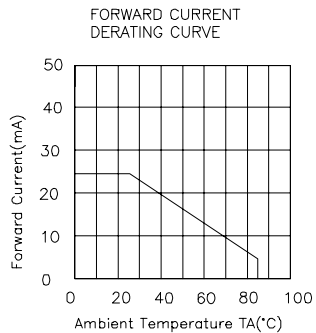
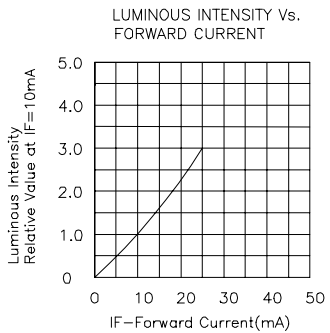
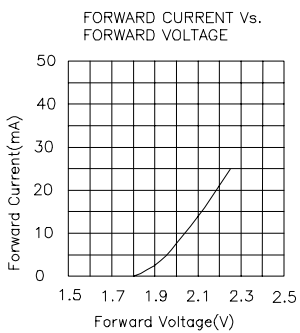
High Efficiency Red E914ET



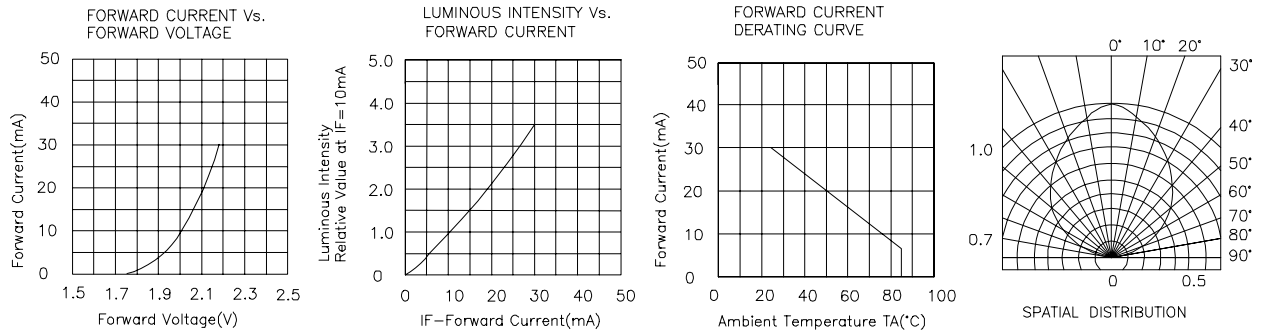
Green E914GD



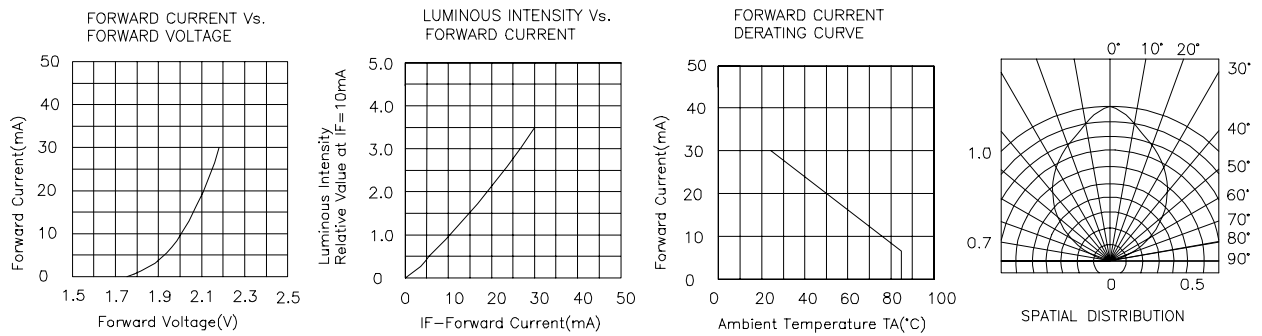
Green E914GT



Yellow E914AD



Yellow E914AT



Pure Green E914PGT

