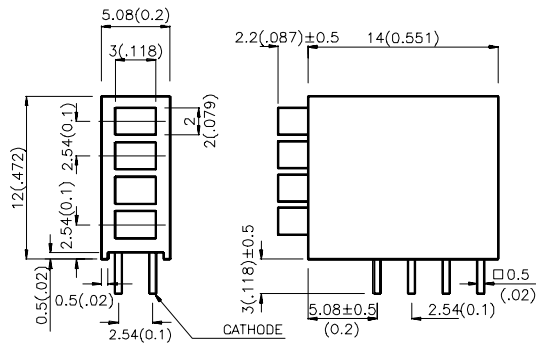


Package Dimensions



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.

2x3mm QUAD-LEVEL LED INDICATORS

E914CK/4GD	GREEN
E914CK/4ID	HIGH EFFICIENCY RED
E914CK/4YD	YELLOW

Features

1. 1.2 x 3mm LED
2. QUAD-LEVEL DESIGN, SAVE BOARD SPACE.
3. DIFFERENT COLOR COMBINATION AVAILABLE
4. BLACK CASE ENHANCES CONTRAST.
5. UL RATING : 94V-0.
6. 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 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.

Selection Guide

Part No.	Emitting Color +Material	λD (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle
				Min.	Typ.	2 θ 1/2
E914CK/4ID	GaAsP/GaP	625	RED DIFFUSED	2	8	100°
E914CK/4GD	GaP	568	GREEN DIFFUSED	2	6	100°
E914CK/4YD	GaAsP/GaP	588	YELLOW DIFFUSED	2	6	100°

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 $T_A=25^\circ\text{C}$

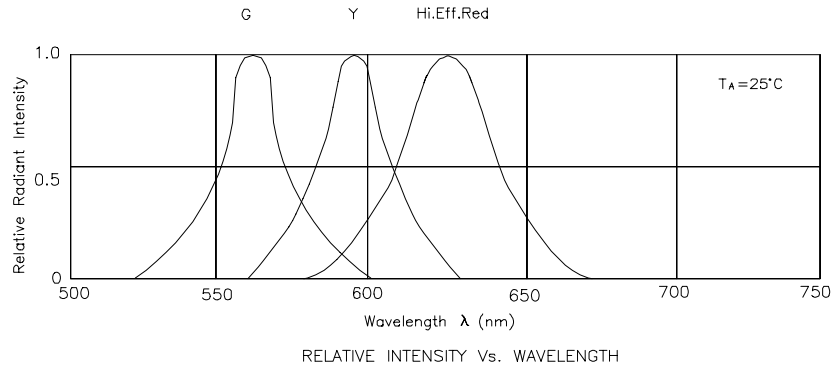
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow	627 565 590		nm	$I_F=20\text{mA}$
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow	625 568 588		nm	$I_F=20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow	45 30 35		nm	$I_F=20\text{mA}$
C	Capacitance	High Efficiency Red Green Yellow	15 15 20		pF	$V_F=0\text{V}; f=1\text{MHz}$
V_F	Forward Voltage	High Efficiency Red Green Yellow	2.0 2.0 2.1	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	Green	Yellow	Units
Power dissipation	105	105	105	mW
DC Forward Current	30	25	30	mA
Peak Forward Current [1]	160	140	140	mA
Reverse Voltage	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C			
Lead Soldering Temperature [2]	260°C For 5 Seconds			

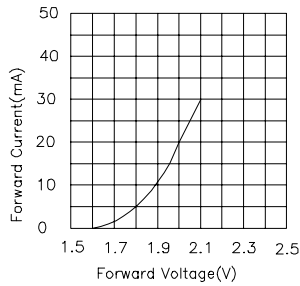
Notes:

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

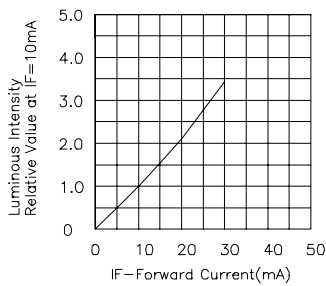


High Efficiency Red E914CK/4ID

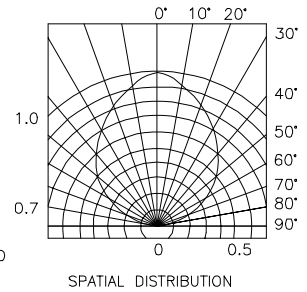
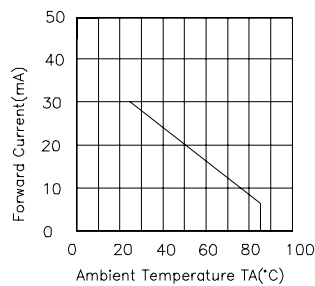
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

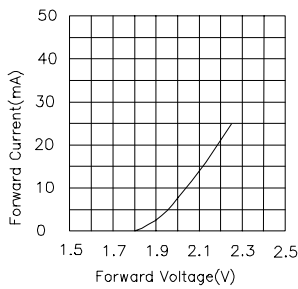


FORWARD CURRENT DERATING CURVE

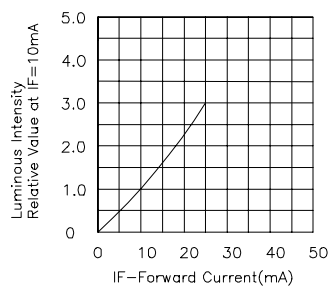


Green E914CK/4GD

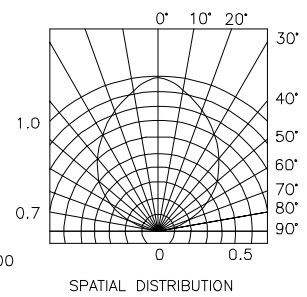
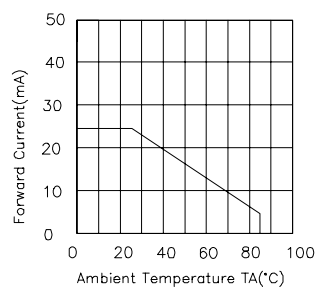
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

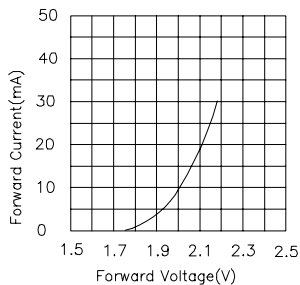


FORWARD CURRENT DERATING CURVE

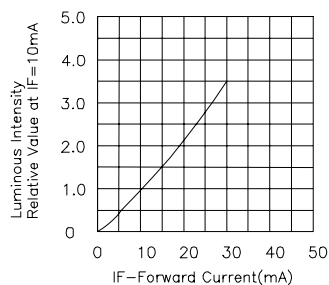


Yellow E914CK/4YD

FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE

