

L914CK/4ID HIGH EFFICIENCY RED
L914CK/4GD GREEN
L914CK/4YD YELLOW

Features

- 2 x 3mm LED
 - QUAD-LEVEL DESIGN, SAVE BOARD SPACE.
 - DIFFERENT COLOR COMBINATION AVAILABLE
 - BLACK CASE ENHANCES CONTRAST.
 - UL RATING : 94V-0.
 - HOUSING MATERIAL: TYPE 66 NYLON.

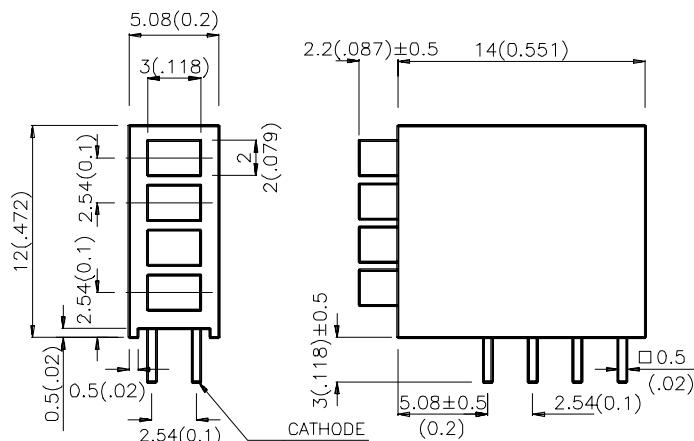
Description

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

The 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.

Package Dimensions



Notes:

- Notes:

 1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
 3. Lead spacing is

Selection Guide

Part No.	Dice	Lens Type	I _v (mcd) @ 10 mA		Viewing Angle
			Min.	Typ.	
L914CK/4ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	2	8	100°
L914CK/4GD	GREEN (GaP)	GREEN DIFFUSED	2	6	100°
L914CK/4YD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	2	6	100°

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

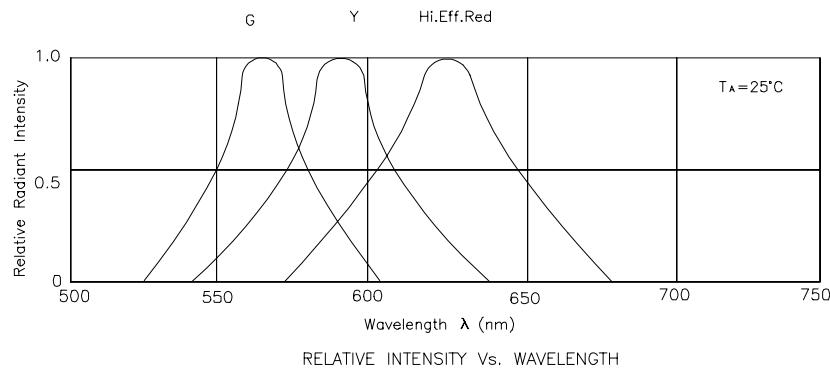
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow	627 565 590		nm	IF=20mA
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow	625 568 588		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow	45 30 35		nm	IF=20mA
C	Capacitance	High Efficiency Red Green Yellow	15 15 20		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Yellow	2.0 2.2 2.1	2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

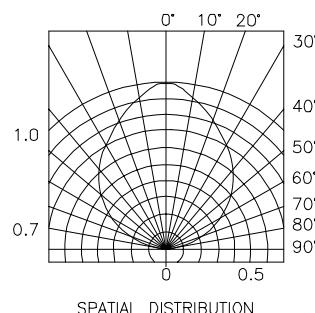
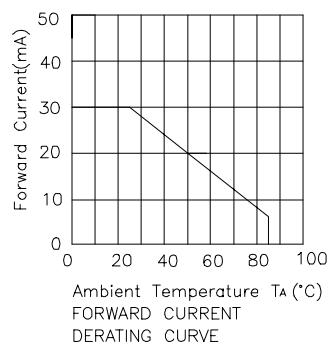
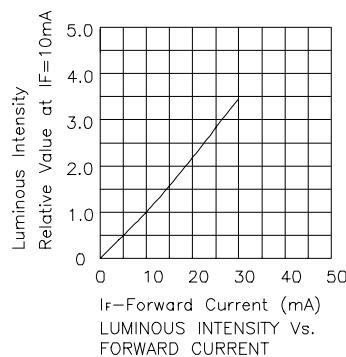
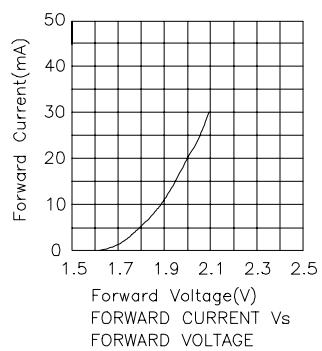
Parameter	High Efficiency Red	Green	Yellow	Units
Power dissipation	105	105	105	mW
DC Forward Current	30	25	30	mA
Peak Forward Current [1]	160	140	140	mA
Reverse Voltage	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 5 Seconds			

Notes:

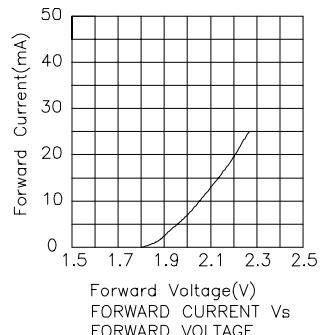
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2.4mm below package base.



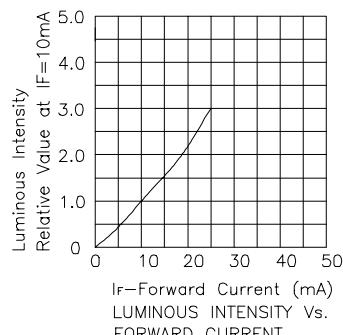
High Efficiency Red L914CK/4ID



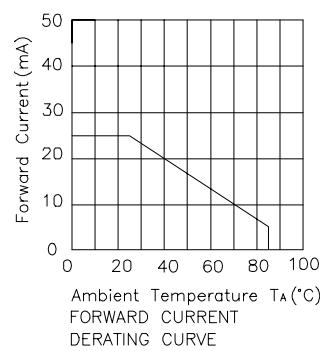
Green L914CK/4GD



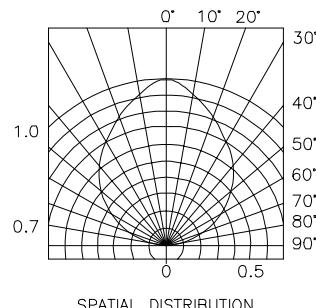
Forward Voltage(V)
FORWARD CURRENT Vs.
FORWARD VOLTAGE



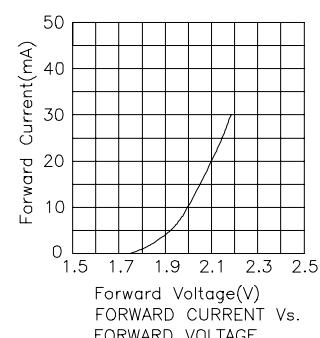
IF=Forward Current (mA)
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



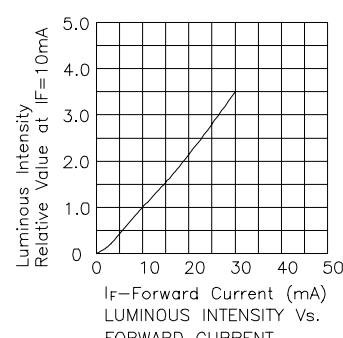
Ambient Temperature T_a (°C)
FORWARD CURRENT
DERATING CURVE



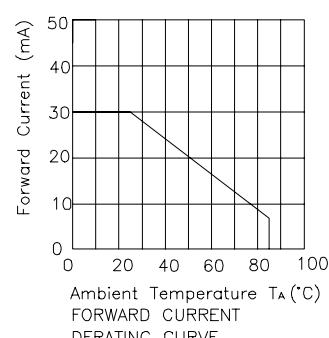
SPATIAL DISTRIBUTION



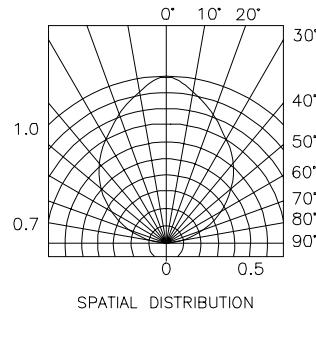
Forward Voltage(V)
FORWARD CURRENT Vs.
FORWARD VOLTAGE



IF=Forward Current (mA)
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



Ambient Temperature T_a (°C)
FORWARD CURRENT
DERATING CURVE



SPATIAL DISTRIBUTION