

Features

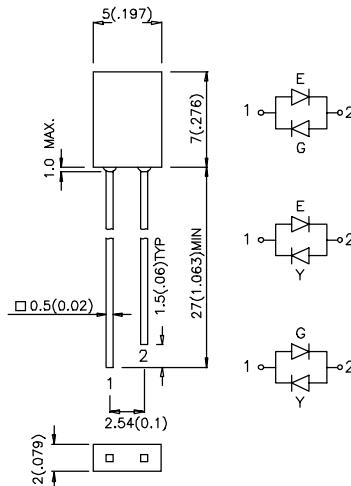
- UNIFORM LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- LOW POWER CONSUMPTION.
- MILKY WHITE DIFFUSION LENS.
- SUPER BRIGHT VERSION AVAILABLE.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.

L117EGW HIGH EFFICIENCY RED / GREEN

L117EYW HIGH EFFICIENCY RED / YELLOW

L117GYW GREEN / YELLOW

Package Dimensions



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.

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 subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
L117EGW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	5	10	110°
	GREEN (GaP)		5	8	
L117EYW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	5	10	110°
	YELLOW (GaAsP/GaP)		5	8	
L117GYW	GREEN (GaP)	WHITE DIFFUSED	5	8	110°
	YELLOW (GaAsP/GaP)		5	8	

Note:

1. $0.01/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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

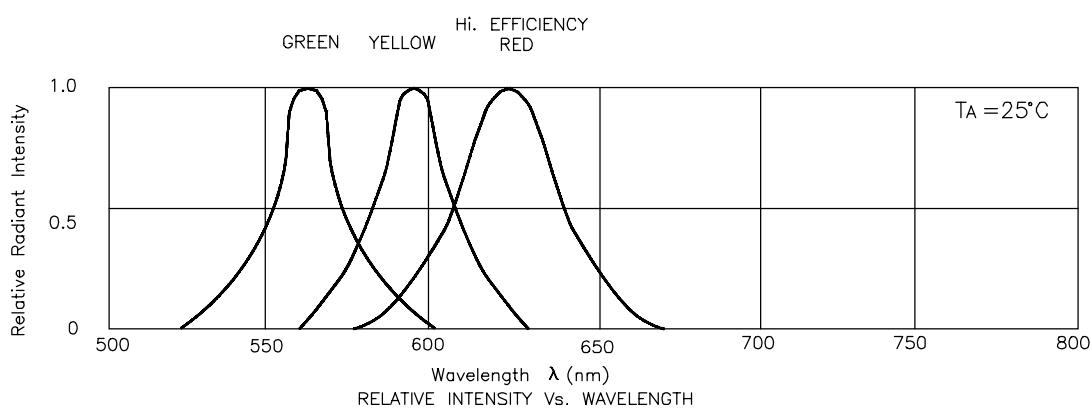
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow	625 565 590		nm	$IF=20\text{mA}$
$\Delta\lambda/2$	Spectral Line Halfwidth	High Efficiency Red Green Yellow	45 30 35		nm	$IF=20\text{mA}$
C	Capacitance	High Efficiency Red Green Yellow	12 45 10		pF	$VF=0\text{V}; f=1\text{MHz}$
V_F	Forward Voltage	High Efficiency Red Green Yellow	2.0 2.2 2.1	2.5 2.5 2.5	V	$IF=20\text{mA}$
I_R	Reverse Current	All		10	uA	$VR = 5\text{V}$

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

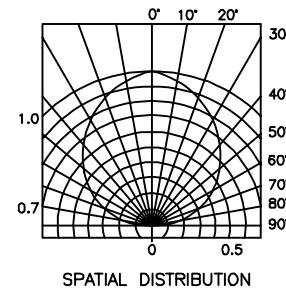
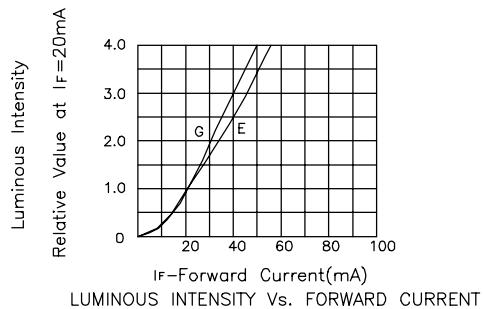
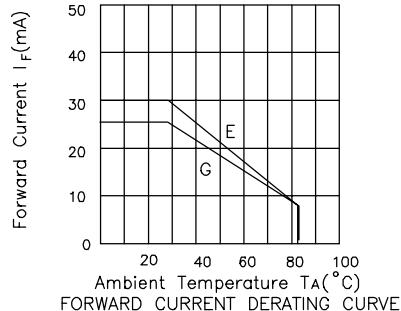
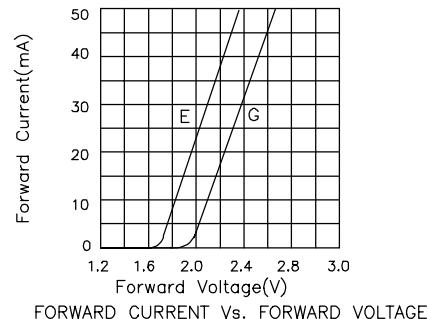
Parameter	High Efficiency Red	Green	Yellow	Units
Power dissipation	105	105	105	mW
DC Forward Current	30	25	30	mA
Peak Forward Current [1]	150	150	150	mA
Reverse Voltage	5	5	5	V
Operation/Storage Temperature		$-40^\circ\text{C} \text{ To } +85^\circ\text{C}$		
Lead Solder Temperature [2]		260°C For 5 Seconds		

Notes:

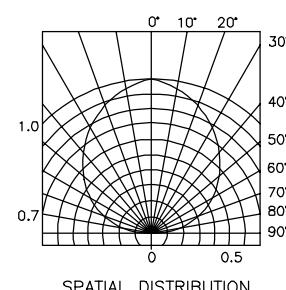
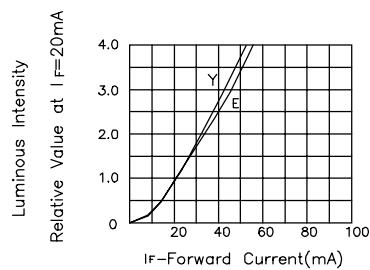
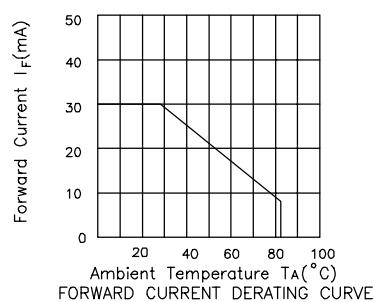
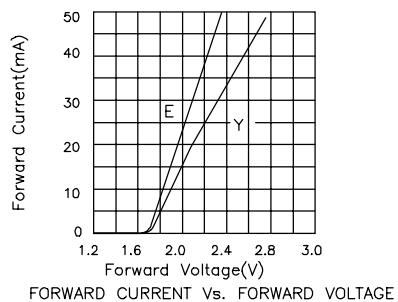
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



High Efficiency Red / Green L117EGW



High Efficiency Red / Yellow L117EYW



Green / Yellow L117GYW

