

L3VGYW GREEN / YELLOW

Description

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

The drawing includes the following dimensions and features:

- Top View:**
 - Overall width: $\phi 4(.157)$
 - Pin pitch: $24.5(.965)$ MIN
 - Pin 1 offset: $1(.039)$
 - Pin 2 offset: $2(.079)$ TYP
 - Pin 3 offset: $2(.079)$ TYP
 - Pin 4 offset: $4(.157)$ TYP
 - Pin 5 offset: $5(.197)$
- Side View:**
 - Pin height: 0.7 MAX.
 - Pin thickness: $0.5(0.02) \pm 0.05$
 - Pin 1 length: 1.0 MAX.
 - Pin 2 length: $6.43(0.253) \pm 0.5$
 - Pin 3 length: $6.43(0.253) \pm 0.5$
 - Pin 4 length: $6.43(0.253) \pm 0.5$
 - Pin 5 length: $6.43(0.253) \pm 0.5$
- Pin Connections:**
 - Pin 1: E (Emitter)
 - Pin 2: G (Gate)
 - Pin 3: Y (Source)
 - Pin 4: Y (Source)
 - Pin 5: Y (Source)

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) @ 20 mA		Viewing Angle
			Min.	Typ.	
L3VEGW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	12	40	60°
	GREEN (GaP)		12	35	
L3VEYW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	12	40	60°
	YELLOW (GaAsP/GaP)		8	15	
L3VGYW	GREEN (GaP)	WHITE DIFFUSED	12	35	60°
	YELLOW (GaAsP/GaP)		8	15	

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

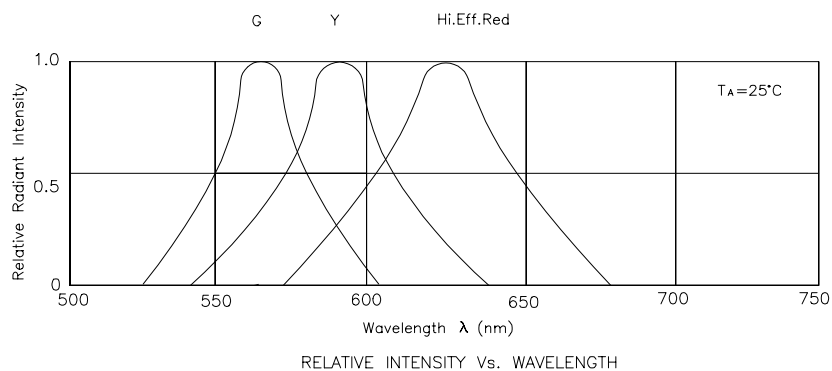
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow	627 565 590		nm	IF=20mA
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow	625 568 588		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow	45 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 $T_A=25^\circ\text{C}$

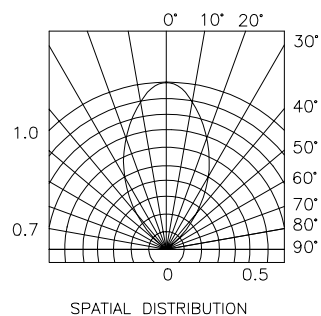
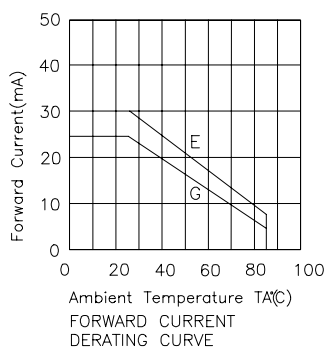
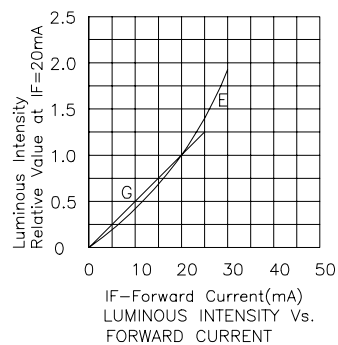
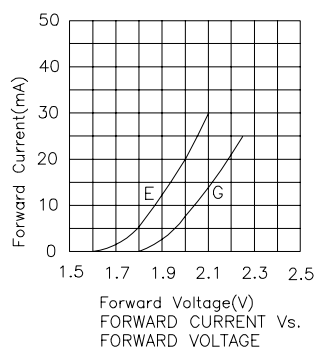
Parameter	High Efficiency Red	Green	Yellow	Units
Power dissipation	105	105	105	mW
DC Forward Current	30	25	30	mA
Peak Forward Current [1]	160	140	140	mA
Reverse Voltage	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 5 Seconds			

Notes:

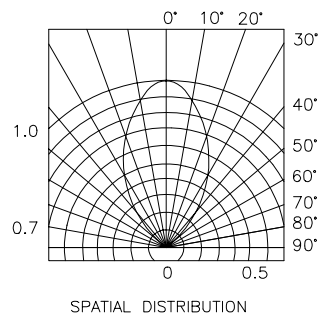
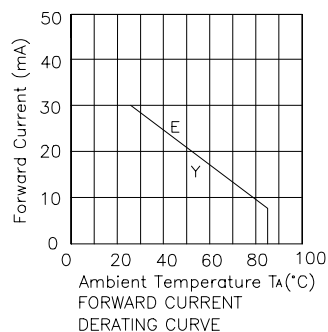
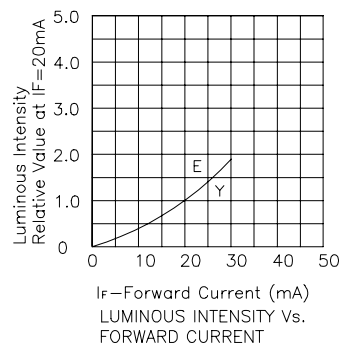
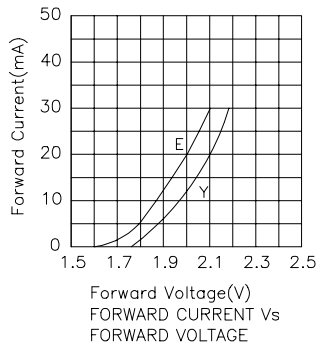
- 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



High Efficiency Red / Green L3VEGW



High Efficiency Red / Yellow L3VEYW



Green / Yellow L3VGYW

