L-93WGYW GREEN / YELLOW

Features

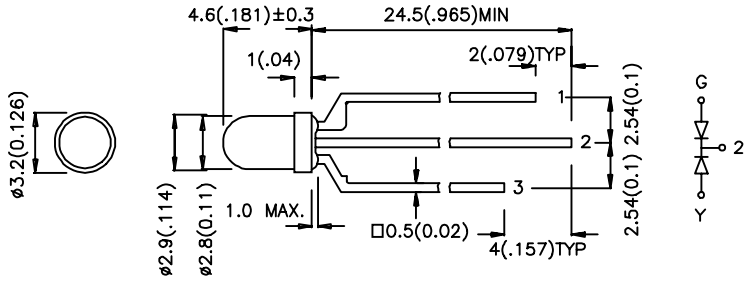
- ●UNIFORM LIGHT OUTPUT.
- ●LOW POWER CONSUMPTION.
- ●MILKY WHITE DIFFUSION LENS.
- ●3 LEADS WITH ONE COMMON LEAD.
- ●THIRD COLOR (MIXED COLOR) AVAILABLE.
- ●I.C. COMPATIBLE.
- ●LONG LIFE - SOLID STATE RELIABILITY.

Description

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



1 ANODE GREEN
2 COMMON CATHODE
3 ANODE YELLOW

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±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.

Kingbright

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-93WGYW	GREEN (GaP)	WHITE DIFFUSED	20	40	60°
	YELLOW (GaAsP/GaP)		20	40	

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

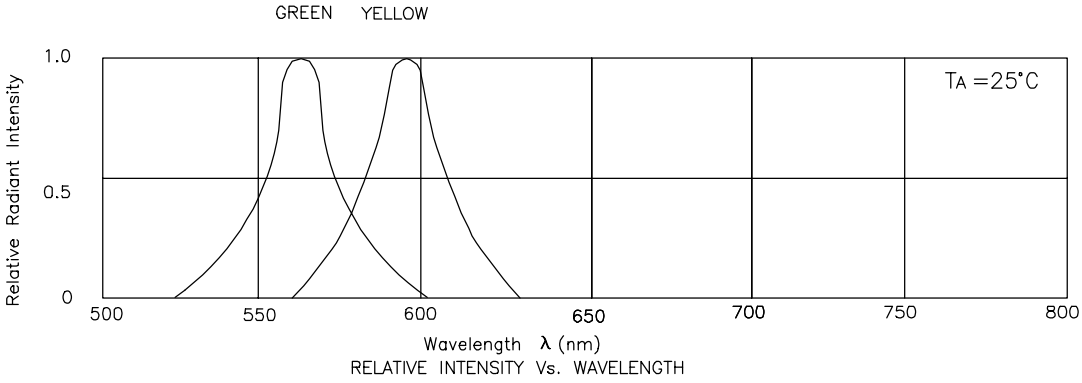
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green Yellow	565 590		nm	IF=20mA
Δ1/2	Spectral Line Halfwidth	Green Yellow	30 35		nm	IF=20mA
C	Capacitance	Green Yellow	45 10		pF	VF=0V;f=1MHz
V_F	Forward Voltage	Green Yellow	2.2 2.1	2.5 2.5	V	IF=20mA
I_R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

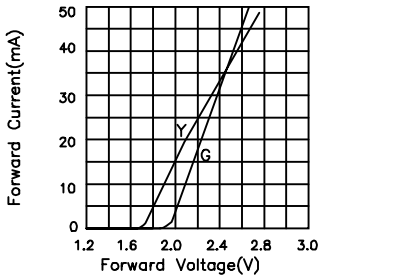
Parameter	Green	Yellow	Units
Power dissipation	105	105	mW
DC Forward Current	25	30	mA
Peak Forward Current [1]	150	150	mA
Reverse Voltage	5	5	V
Operation/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 5 Seconds		

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

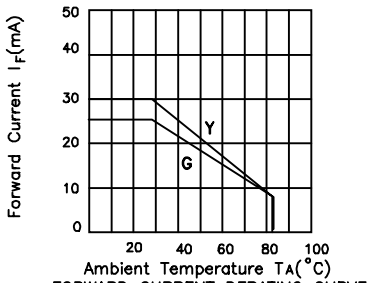


RELATIVE INTENSITY Vs. WAVELENGTH

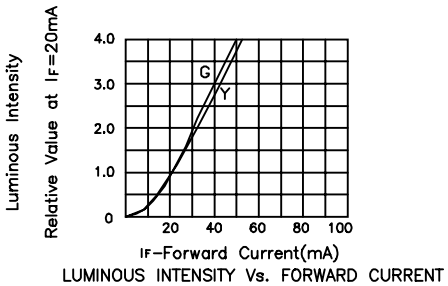
Green / Yellow L-93WGYW



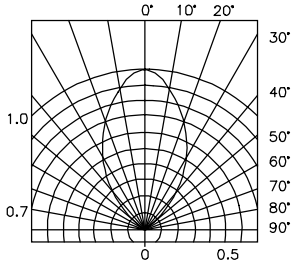
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



SPATIAL DISTRIBUTION