

L-945/5HD BRIGHT RED

L-945/5GD GREEN

L-945/5YD YELLOW

Features

- 5 ELEMENTS.
- EASY INSTALLATION.
- SUITABLE FOR LEVEL INDICATORS.

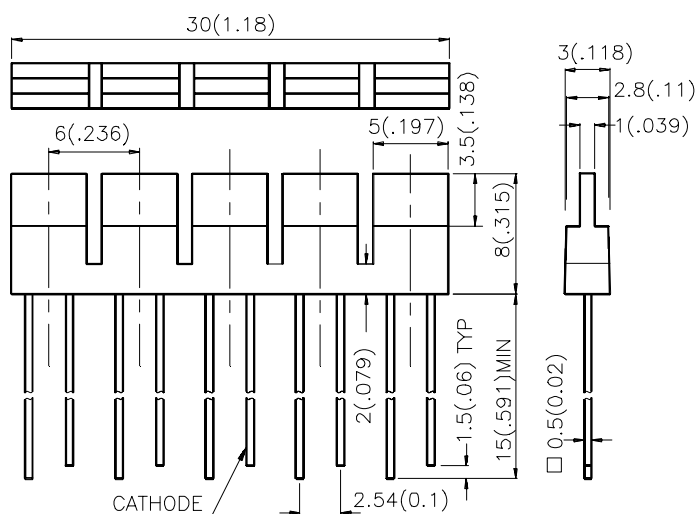
Description

The Bright Red source color devices are made with Gallium Phosphide Red 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



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA		Viewing Angle
			Min.	Typ.	
L-945/5HD	BRIGHT RED (GaP)	RED DIFFUSED	0.5	1	110°
L-945/5GD	GREEN (GaP)	GREEN DIFFUSED	0.8	2	110°
L-945/5YD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	0.8	2	110°

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

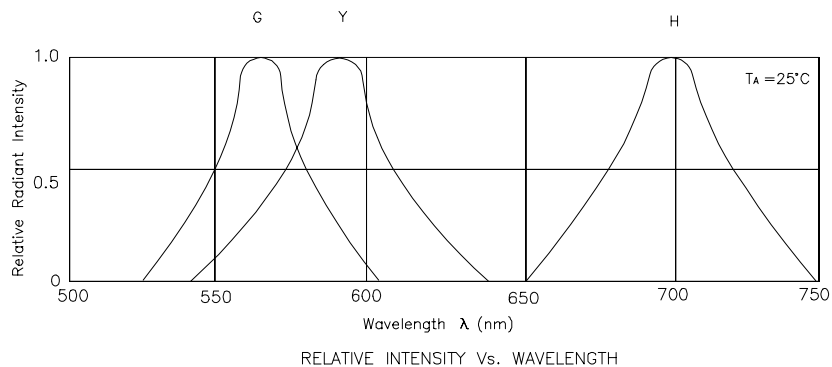
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Bright Red Green Yellow	700 565 590		nm	IF=20mA
λ_D	Dominate Wavelength	Bright Red Green Yellow	660 568 588		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Bright Red Green Yellow	45 30 35		nm	IF=20mA
C	Capacitance	Bright Red Green Yellow	40 15 20		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Bright Red Green Yellow	2.25 2.2 2.1	2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	μA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

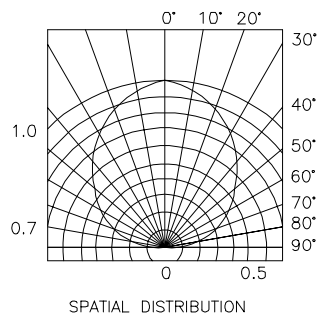
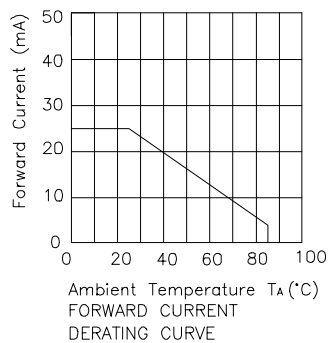
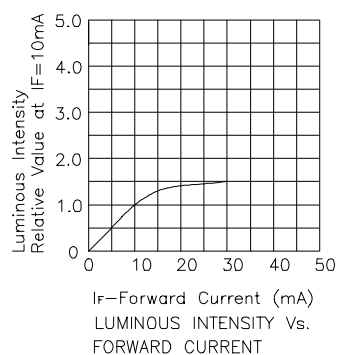
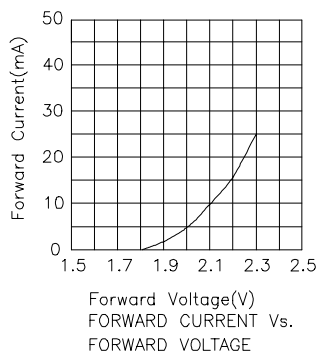
Parameter	Bright Red	Green	Yellow	Units
Power dissipation	120	105	105	mW
DC Forward Current	25	25	30	mA
Peak Forward Current [1]	120	140	140	mA
Reverse Voltage	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 5 Seconds			

Notes:

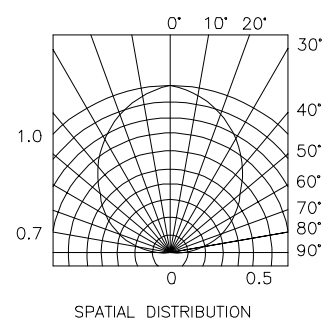
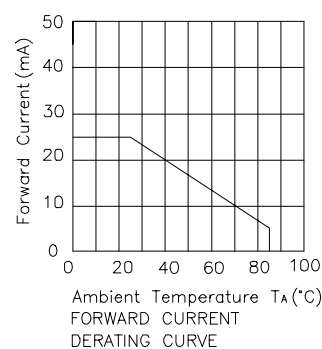
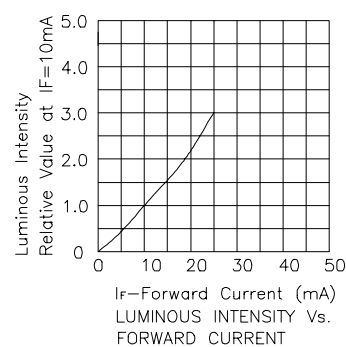
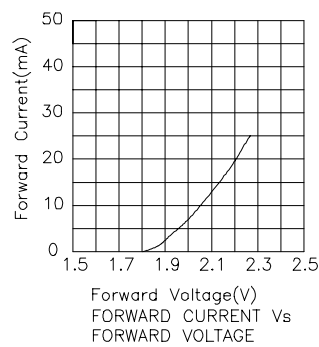
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



Bright Red L-945/5HD



Green L-945/5GD



Yellow L-945/5YD

