

Kingbright®

8mm BI-COLOR BIG LED LAMPS

L-799EG HIGH EFFICIENCY RED / GREEN

L-799SRSG SUPER BRIGHT RED / SUPER BRIGHT GREEN

Features

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

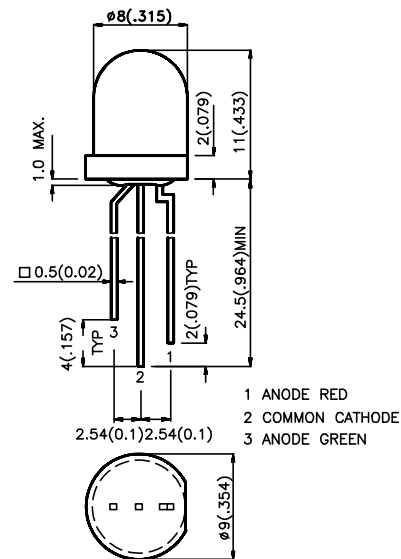
Description

The Green and Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions



- 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 emerges from the package.
 4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle 2θ/2
			Min.	Max.	
L-799EGW	HIGH EFFICIENCY RED (GaAsP/GaP)	White Diffused	30	90	50°
	Green (GaP)		20	60	
L-799SRSGW-CC	SUPER BRIGHT RED (GaAlAs)	White Diffused	100	300	50°
	SUPER BRIGHTGreen (GaP)		40	70	

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

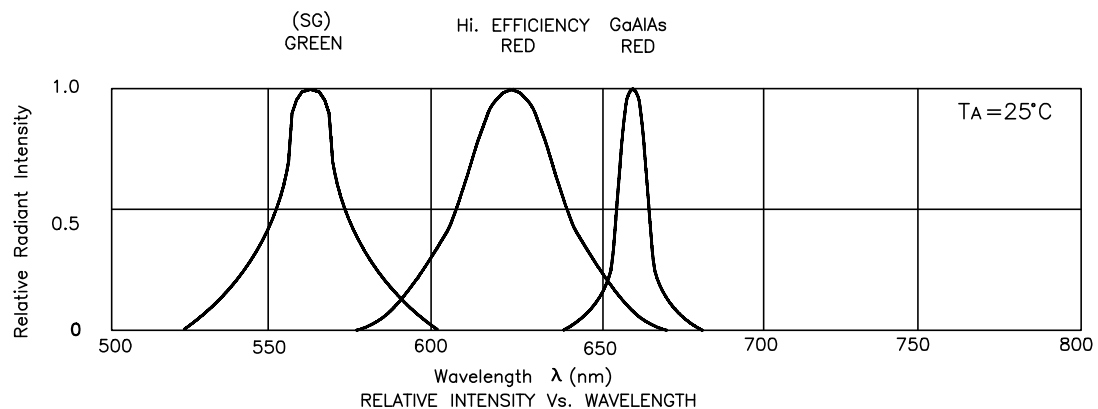
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Super Bright Red Super Bright Green	625 565 660 565		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Super Bright Red Super Bright Green	45 30 20 30		nm	IF=20mA
C	Capacitance	High Efficiency Red Green Super Bright Red Super Bright Green	12 45 95 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Super Bright Red Super Bright Green	2.0 2.2 1.85 2.2	2.5 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

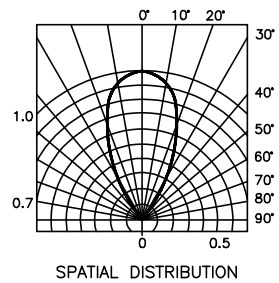
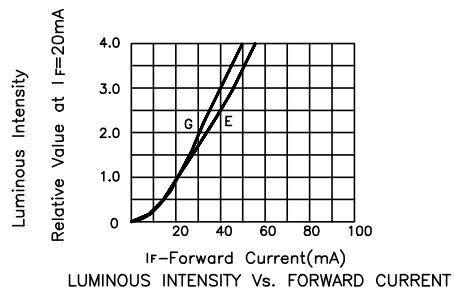
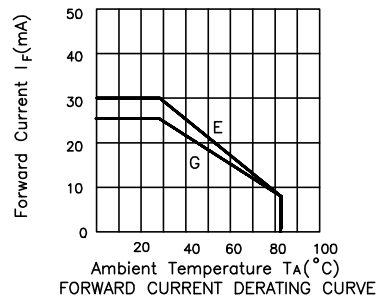
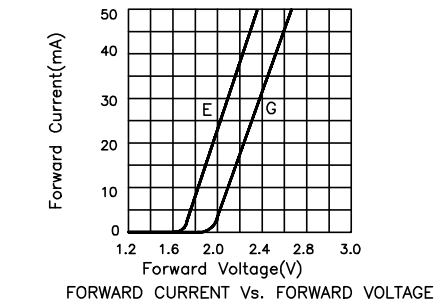
Parameter	High Efficiency Red	Green	Super Bright Red	Super Bright Green	Units
Power dissipation	105	105	100	105	mW
DC Forward Current	30	25	30	25	mA
Peak Forward Current	150	150	150	150	mA
Reverse Voltage	5	5	5	5	V
Operation/Storage Temperature	-40 ° C To +85 ° C				
Lead Solder Temperature [4mm below package base]	260 ° C For 5 Seconds				

Notes:

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



High Efficiency Red / Green L-799EGW



Super Bright Red / Super Bright Green L-799SRSGW-CC

