

[查询"L63SRD"供应商](#)

L63I HIGH EFFICIENCY RED

L63G GREEN

L63SR SUPER BRIGHT RED

L63Y YELLOW

Features

- HIGH INTENSITY.
- LOW PROFILE.
- LOW POWER CONSUMPTION.
- LONG LIFE - SOLID STATE RELIABILITY.
- RELIABLE AND RUGGED.
- DIFFUSED AND TRANSPARENT TYPE.

Description

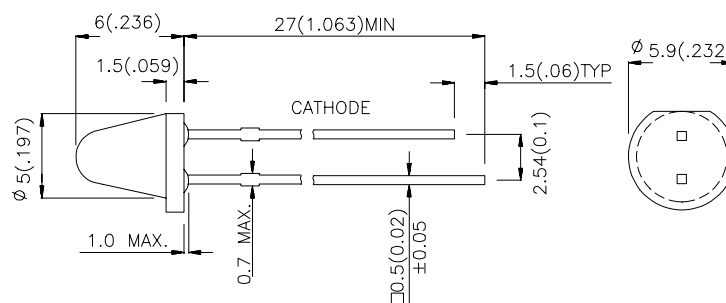
The High Efficiency Red and Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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.

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 $\pm 0.25(0.01)$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA *20mA		Viewing Angle
			Min.	Typ.	
L63ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	12	20	60°
L63IT		RED TRANSPARENT	30	50	30°
L63GD	GREEN (GaP)	GREEN DIFFUSED	5	12	60°
L63GT		GREEN TRANSPARENT	20	40	30°
L63YD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	5	10	60°
L63YT		YELLOW TRANSPARENT	20	35	30°
L63SRD	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	*100	*300	60°
L63SRT		RED TRANSPARENT	*300	*300	30°
L63SRC		WATER CLEAR	*200	*700	30°

Notes:

1. $\theta_{1/2}$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. * Luminous intensity with asterisk is measured at 20mA.

Electrical / Optical Characteristics at T_A=25°C

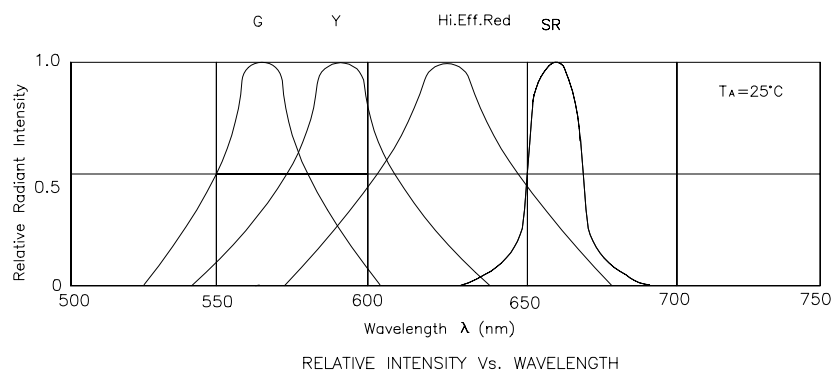
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	627 565 590 660		nm	IF=20mA
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 568 588 640		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	IF=20mA
C	Capacitance	High Efficiency Red Green Yellow Super Bright Red	15 15 20 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red	2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

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

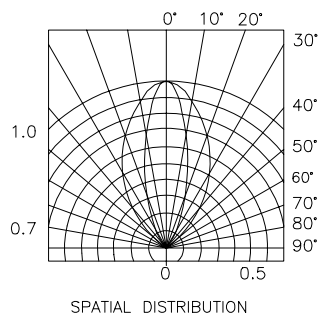
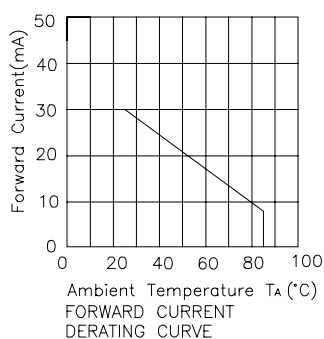
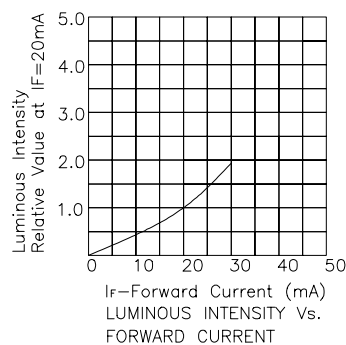
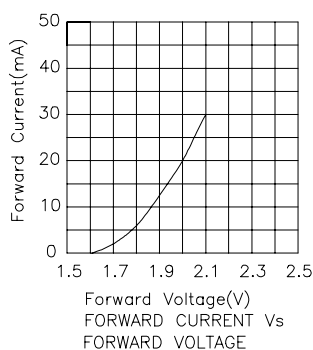
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	105	105	105	100	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	160	140	140	155	mA
Reverse Voltage	5	5	5	5	V
Operation/Storage Temperature	-40°C To $+85^\circ\text{C}$				
Lead Solder Temperature [2]	260°C For 5 Seconds				

Notes:

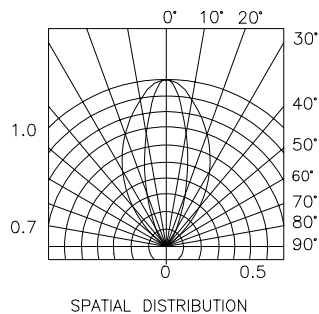
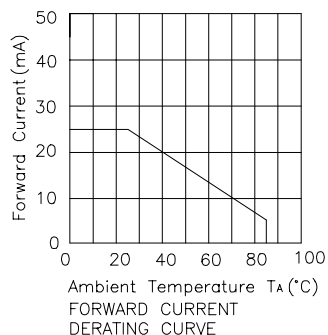
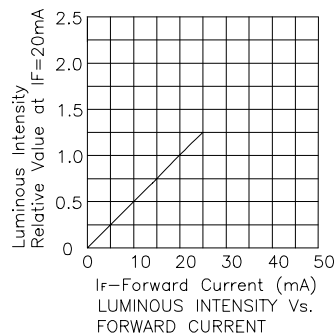
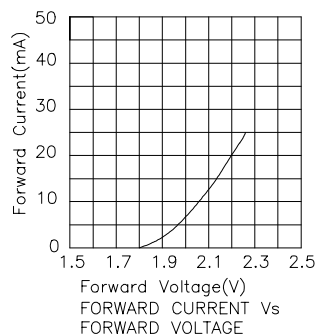
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.

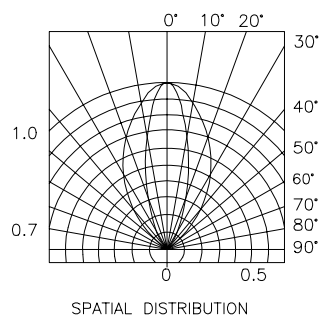
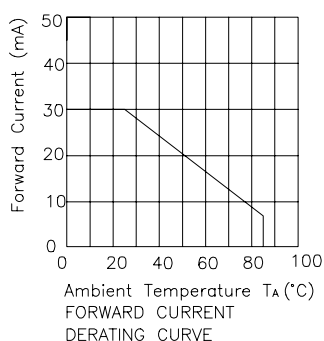
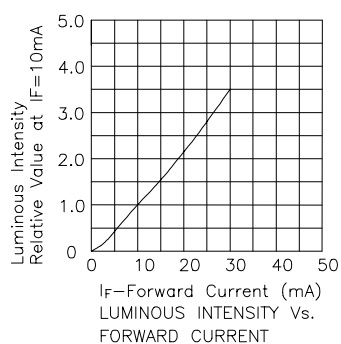
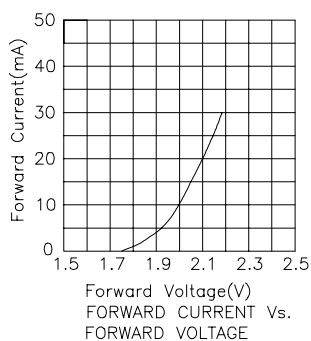


High Efficiency Red L63ID,L63IT



Green L63GD,L63GT





Super Bright Red L63SRD,L63SRC,L63SRT

