

L-1043ID	HIGH EFFICIENCY RED
L-1043GD	GREEN
L-1043YD	YELLOW
L-1043SRD	SUPER BRIGHT RED
L-1043SGD	SUPER BRIGHT GREEN

### Features

- FLAT RECTANGULAR LIGHT EMITTING SURFACE.
- IDEAL AS FLUSH MOUNTED PANEL INDICATORS.
- EXCELLENT ON/OFF CONTRAST.
- LONG LIFE - SOLID STATE RELIABILITY.

### Description

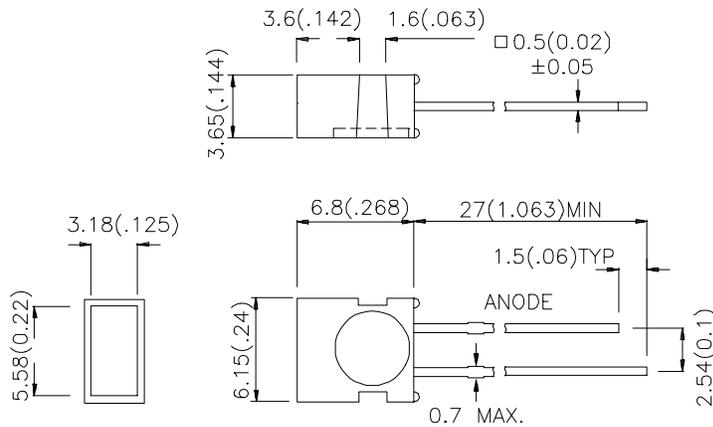
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Green and Super Bright 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.

## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA*20mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-1043ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	2	10	100°
L-1043GD	GREEN (GaP)	GREEN DIFFUSED	1	4	100°
L-1043YD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	1	4	100°
L-1043SRD	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	*40	*90	100°
L-1043SGD	SUPER BRIGHT GREEN (GaP)	GREEN DIFFUSED	*5	*10	100°

Notes:

1. θ1/2 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<sub>A</sub>=25°C

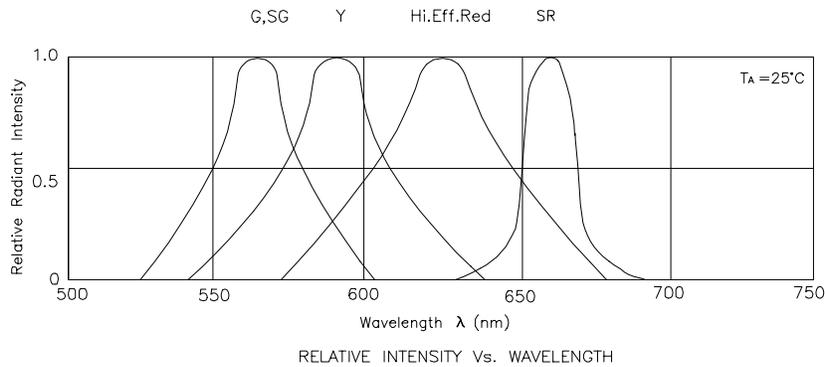
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	627 565 590 660 565		nm	IF=20mA
λ <sub>D</sub>	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	625 568 588 640 568		nm	IF=20mA
Δλ <sub>1/2</sub>	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	45 30 35 20 30		nm	IF=20mA
C	Capacitance	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	15 15 20 45 15		pF	VF=0V;f=1MHz
V <sub>F</sub>	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	2.0 2.2 2.1 1.85 2.2	2.5 2.5 2.5 2.5 2.5	V	IF=20mA
I <sub>R</sub>	Reverse Current	All		10	μA	VR = 5V

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

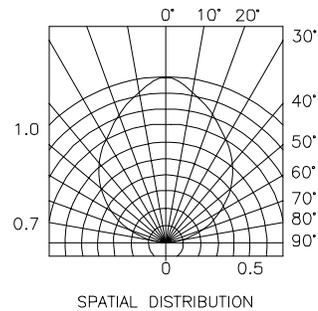
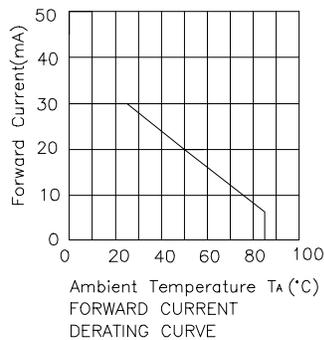
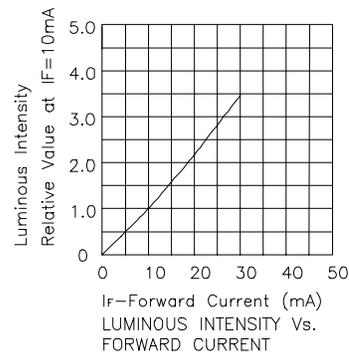
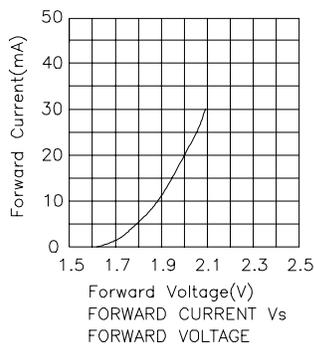
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Super Bright Green	Units
Power dissipation	105	105	105	100	105	mW
DC Forward Current	30	25	30	30	25	mA
Peak Forward Current [1]	160	140	140	155	140	mA
Reverse Voltage	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C					
Lead Solder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

Notes:

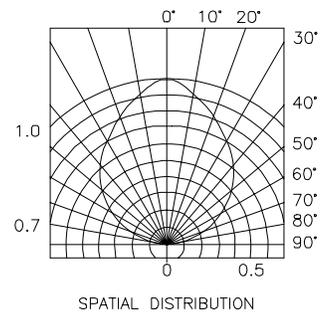
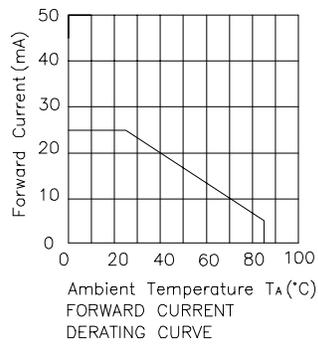
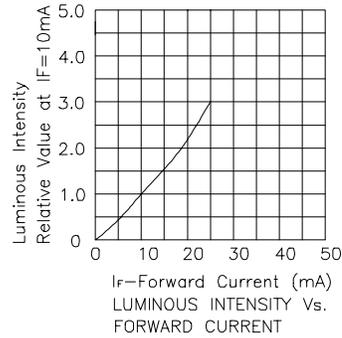
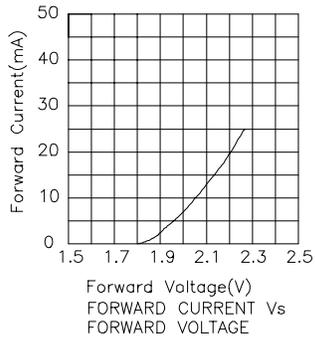
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



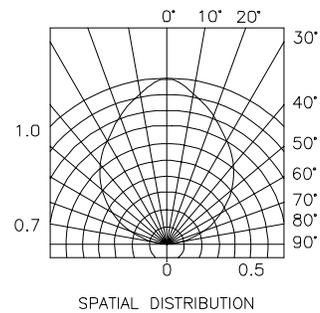
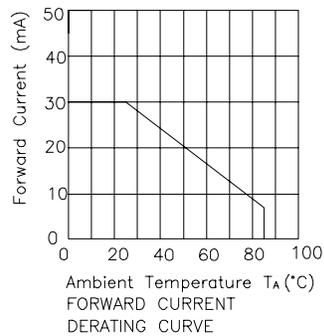
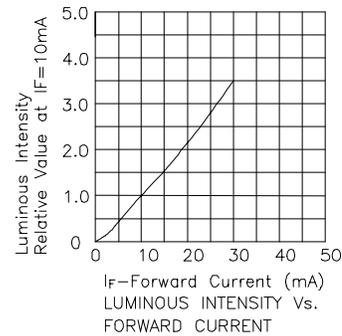
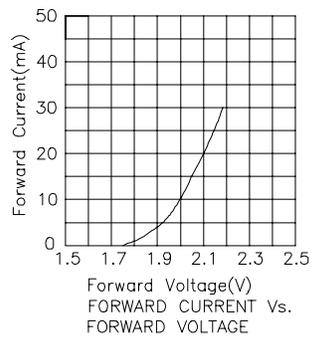
## High Efficiency Red L-1043ID



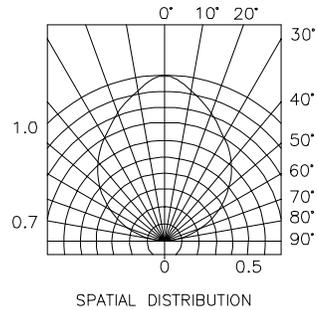
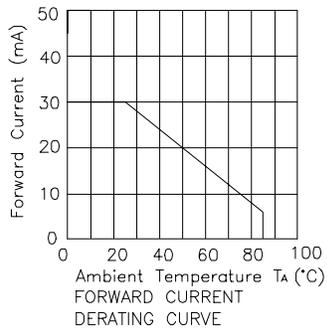
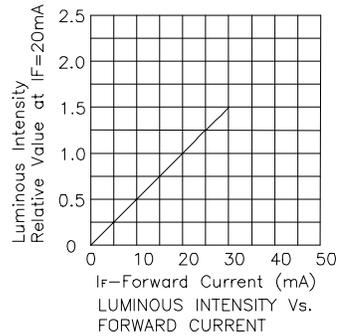
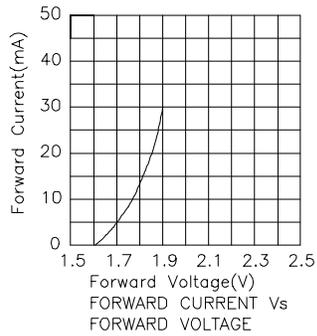
## Green L-1043GD



## Yellow L-1043YD



## Super Bright Red L-1043SRD



## Super Bright Green L-1043SGD

