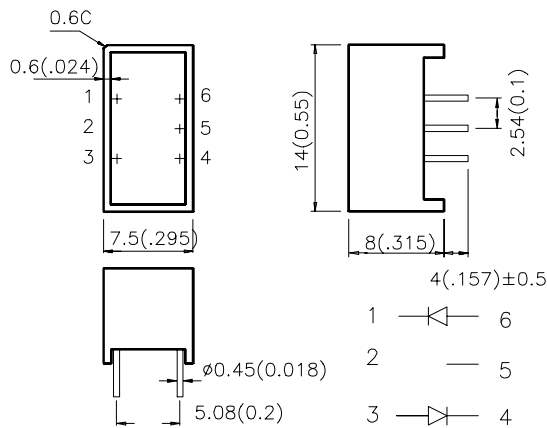


Package Dimensions & Internal Circuit Diagram



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.

LIGHT BARS

EDE2ID	HIGH EFFICIENCY RED
EDE2GD	GREEN
EDE2YD	YELLOW
EDE2SRD	SUPER BRIGHT RED
EDE2SGD	SUPER BRIGHT GREEN

Features

1. UNIFORM LIGHT EMITTING AREA.
2. EASILY MOUNTED ON P.C. BOARDS OR INDUSTRY STANDARD SOCKETS.
3. FLUSH MOUNTABLE.
4. EXCELLENT ON/OFF CONTRAST.
5. CAN BE USED WITH PANELS AND LEGEND MOUNTS.
6. MECHANICALLY RUGGED.
7. I.C. COMPATIBLE.
8. SUPER BRIGHT RED AVAILABLE.

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.

Selection Guide

Part No.	Emitting Color +Material	λ D (nm)	Lens Type	Iv (mcd) @10mA*20mA		Viewing Angle
				Min.	Typ.	2 θ 1/2
EDE2ID	GaAsP/GaP	625	RED DIFFUSED	9	31	120°
EDE2GD	GaP	568	GREEN DIFFUSED	9	52	120°
EDE2YD	GaAsP/GaP	588	YELLOW DIFFUSED	9	31	120°
EDE2SRD	GaAlAs	640	RED DIFFUSED	*100	*300	120°
EDE2SGD	GaP	568	GREEN DIFFUSED	*40	*80	120°

Notes:

1. θ 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

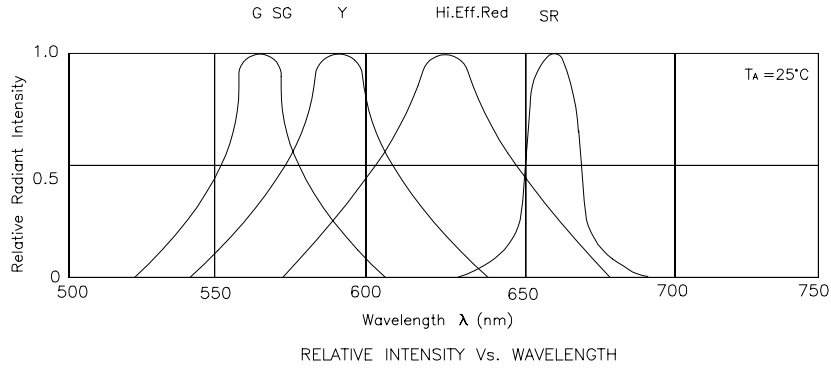
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	627 565 590 660 565		nm	I _F =20mA
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	625 568 588 640 568		nm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

Absolute Maximum Ratings at T_A=25°C

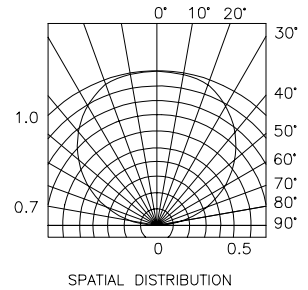
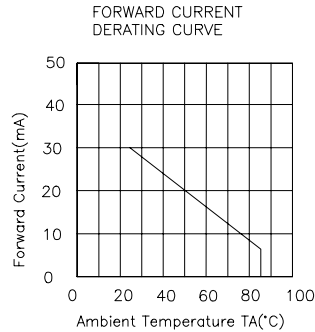
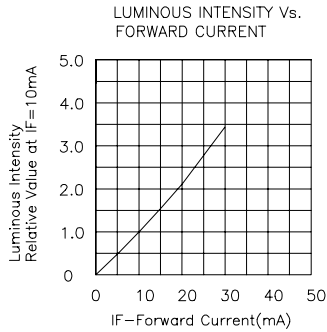
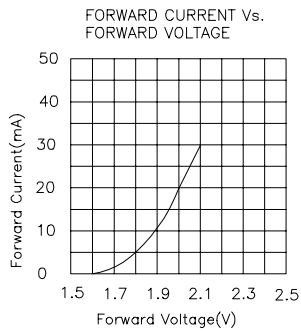
Parameter	High Efficiency Red	Green	Yellow	Super Bright Green	Super Bright Red	Units
Power dissipation	105	105	105	105	100	mW
DC Forward Current	30	25	30	25	30	mA
Peak Forward Current [1]	160	140	140	140	155	mA
Reverse Voltage	5	5	5	5	5	V
Operating/Storage Temperature	-40°C To +85°C					
Lead Soldering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

Notes:

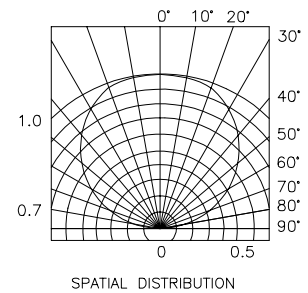
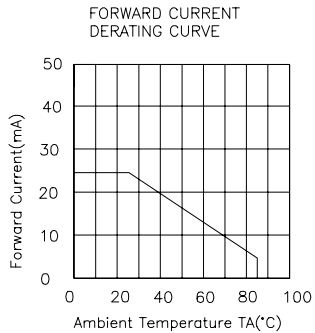
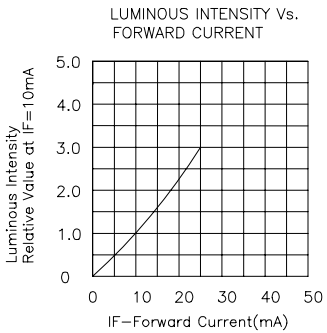
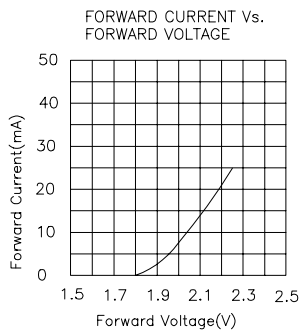
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



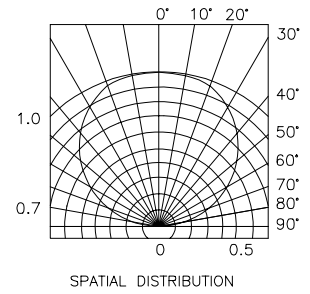
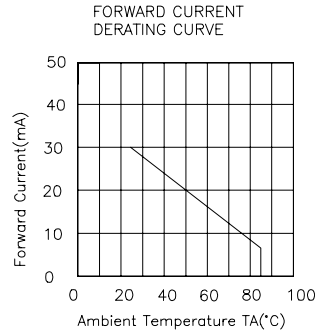
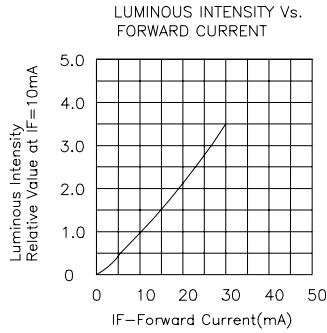
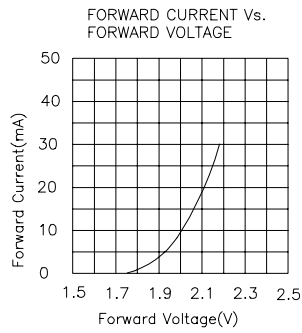
High Efficiency Red EDE2ID



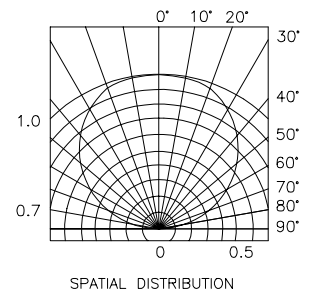
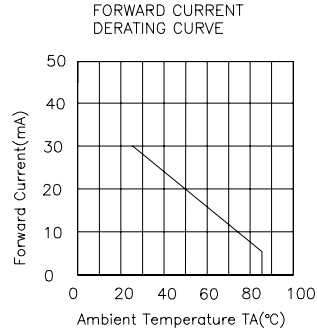
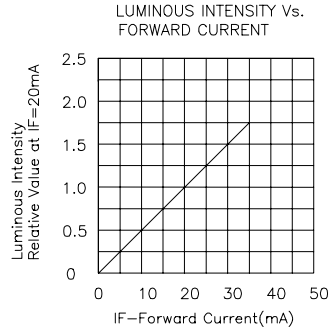
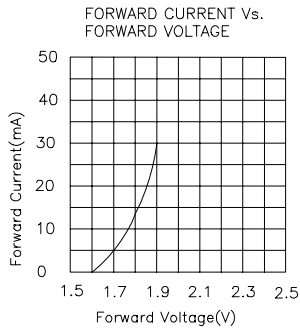
Green EDE2GD



Yellow EDE2YD



Super Bright Red EDE2SRD



Super Bright Green EDE2SGD

