

Features

- T-1 3/4 PACKAGE WITH RECTANGULAR BASE.
- WITH BUILT-IN BLINKING IC.
- OPERATION VOLTAGE FROM 3.5V TO 13V.
- BLINKING FREQUENCY FROM 2.5Hz TO 1.5Hz.

L456BHD BRIGHT RED

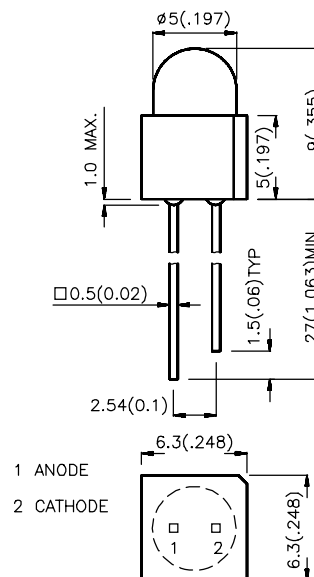
L456BGD GREEN

L456BID HIGH EFFICIENCY RED

L456BYD YELLOW

L456BSRD/B SUPER BRIGHT RED

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 subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ VF=9V		Viewing Angle
			Min.	Typ.	
L456BHD	BRIHT RED (GaP)	RED DIFFUSED	0.8	1	60°
L456BID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	12	20	60°
L456BGD	GREEN (GaP)	GREEN DIFFUSED	5	15	60°
L456BYD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	5	15	60°
L456BSRD/B	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	100	200	60°

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

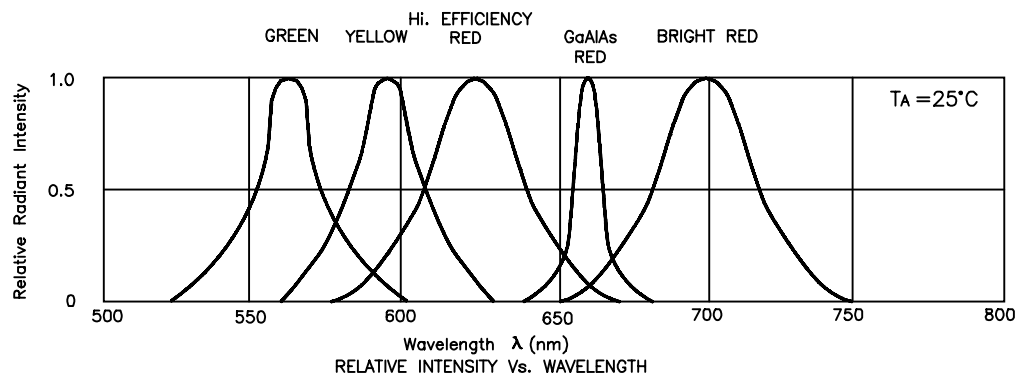
Symbol	Parameter	Device	Min.	Typ.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Bright Red High Efficiency Red Green Yellow Super Bright Red		700 625 565 590 660	nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Bright Red High Efficiency Red Green Yellow Super Bright Red		45 45 30 35 20	nm	IF=20mA
V _F	Forward Voltage	All	3.5	9-12	V	Min. IF=6mA Typ. IF=38-56mA
I _{SON}	Supply Current	All		6 -70	mA	
f	Blink Frequency	All		2.5-1.5	Hz	

Absolute Maximum Ratings at T_A=25°C

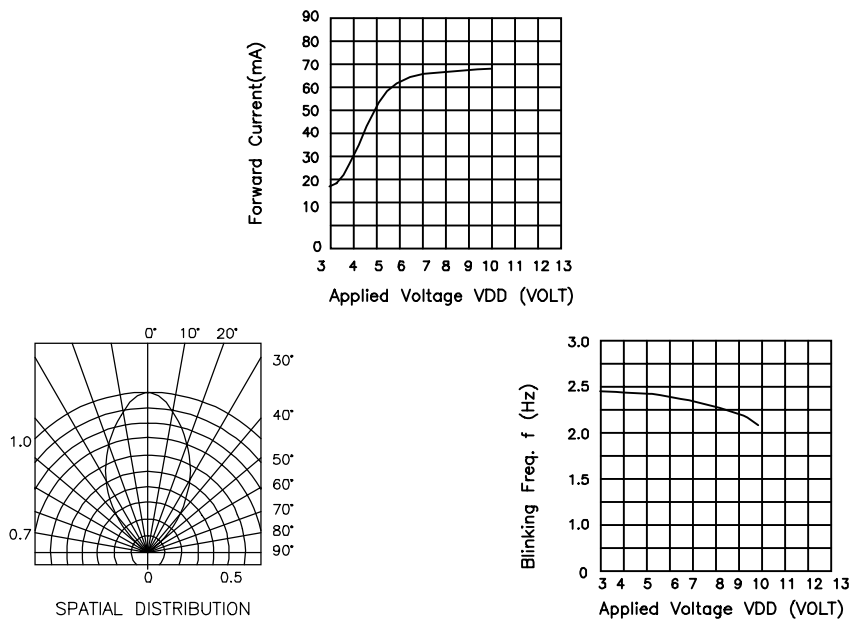
Parameter	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	200	200	200	200	200	mW
DC Forward Current	38-56	38-56	38-56	38-56	38-56	mA
Reverse Voltage	0.5	0.5	0.5	0.5	0.5	V
Operating Temperature	-40°C To +70°C					
Storage Temperature	-50°C To +100°C					
Lead Soldering Temperature [1]	260°C For 5 Seconds					

Notes:

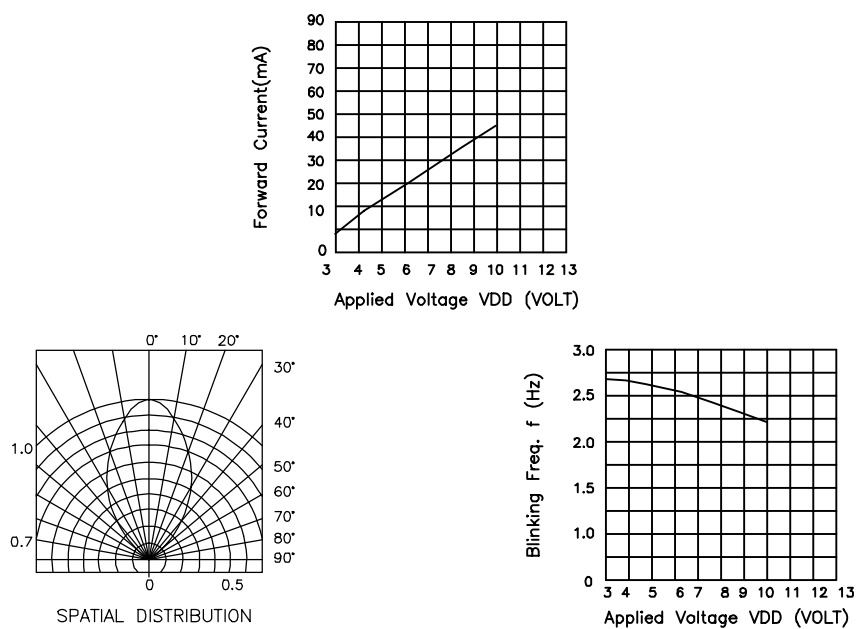
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



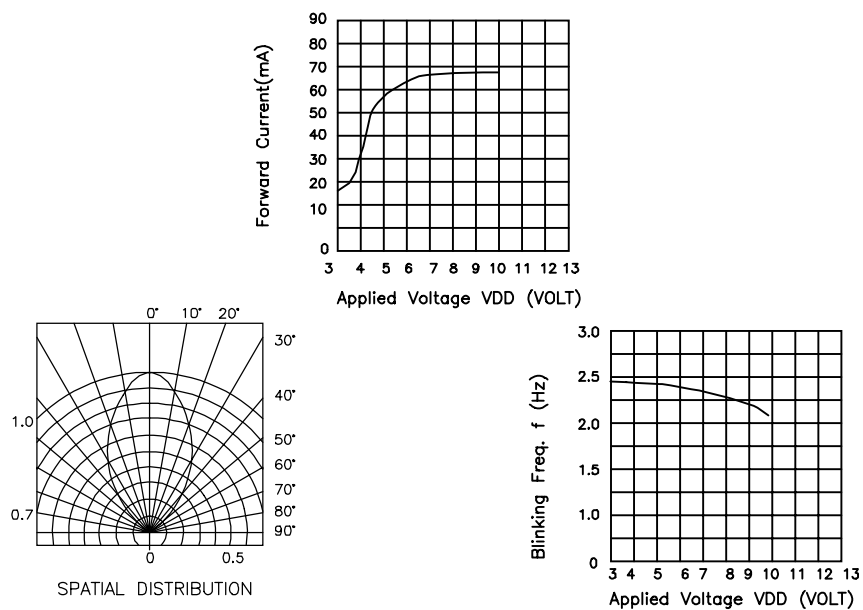
Bright Red L456BHD



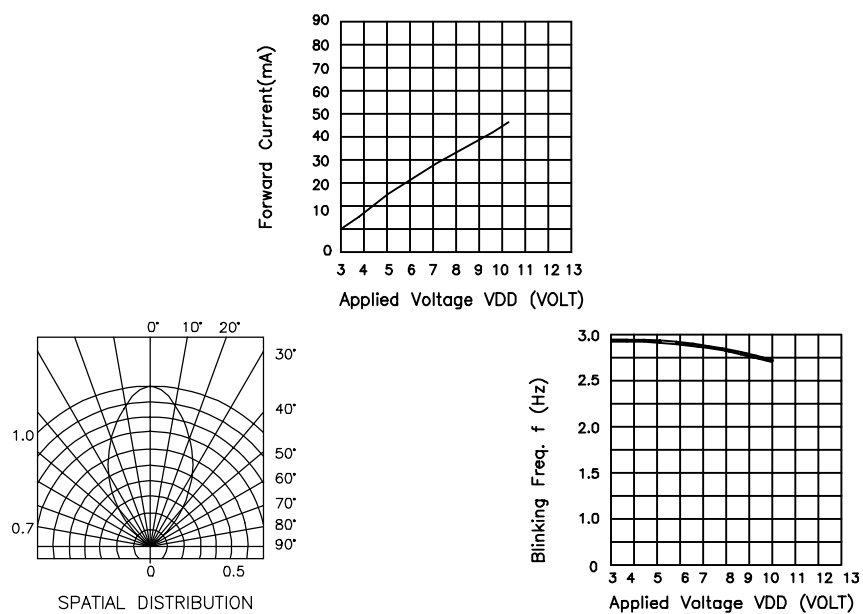
High Efficiency Red L456BID



Green L456BGD



Yellow L456BYD



Super Bright Red L456SRD/B

