

GHB-3M60D-O

Features

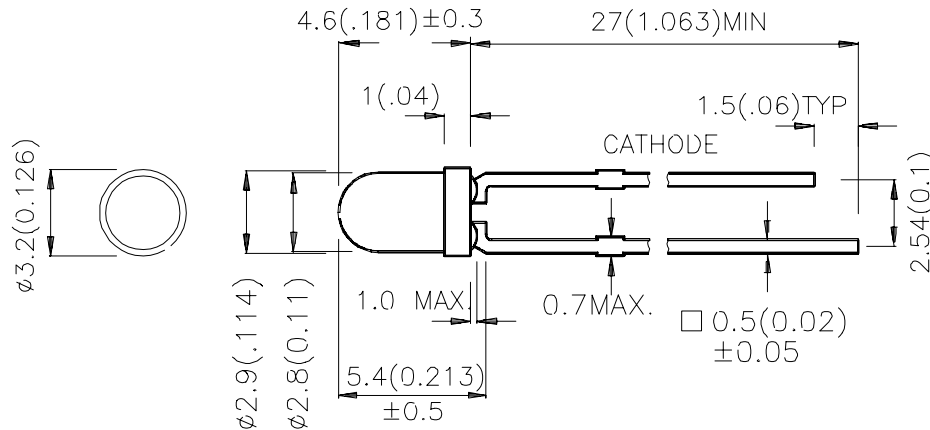
- ✓ HIGH INTENSITY.
- ✓ LOW POWER CONSUMPTION.
- ✓ POPULAR T-1 DIAMETER PACKAGE.
- ✓ GENERAL PURPOSE LEADS.
- ✓ RELIABLE AND RUGGED.
- ✓ LONG LIFE - SOLID STATE RELIABILITY.
- ✓ AVAILABLE ON TAPE AND REEL.

Description

The Super Bright Orange source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

T-1 (3mm) SOLID LED LAMP

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is .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) @ 20 mA		Viewing Angle
			Min.	Typ.	
GHB-3M60D-O	SUPER BRIGHTORANGE(InGaAlP)	ORANGE DIFFUS ED	280	800	60°

Note:

1 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
peak	Peak Wavelength	Super Bright Orange	610		nm	I _F =20mA
D	Dominate Wavelength	Super Bright Orange	601		nm	I _F =20mA
1/2	Spectral Line Half-width	Super Bright Orange	29		nm	I _F =20mA
C	Capacitance	Super Bright Orange	30		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Super Bright Orange	2.0	2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Orange		10	uA	V _R = 5V

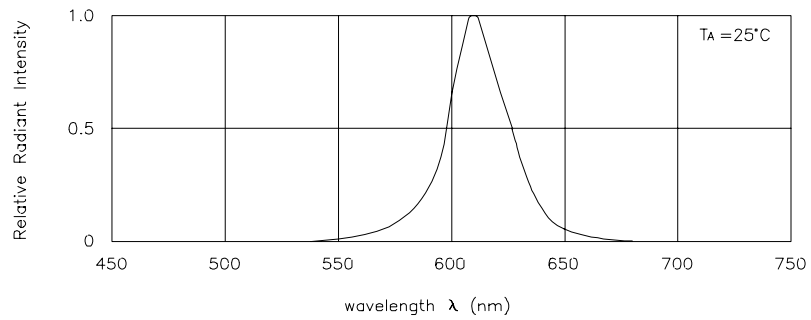
Absolute Maximum Ratings at T_A=25 C

Parameter	Super Bright Orange	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	195	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40 C To +85 C	
Lead Solder Temperature [2]	260 C For 5 Seconds	

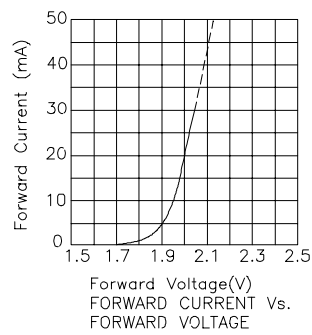
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

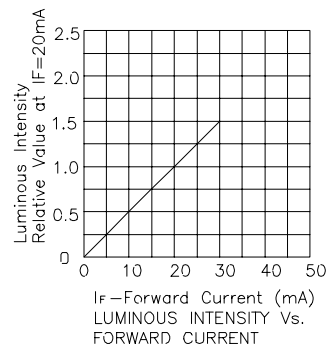
2. 2mm below package base.



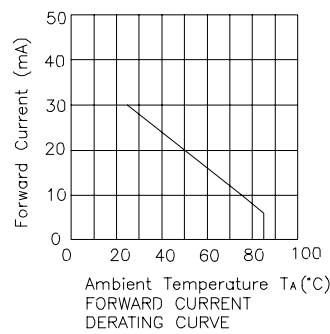
RELATIVE INTENSITY Vs. WAVELENGTH



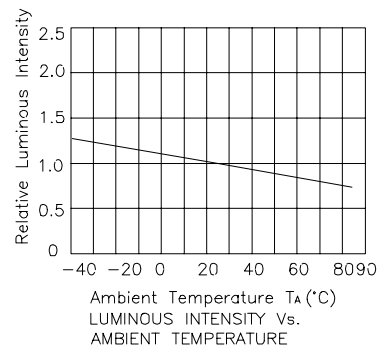
FORWARD CURRENT Vs. FORWARD VOLTAGE



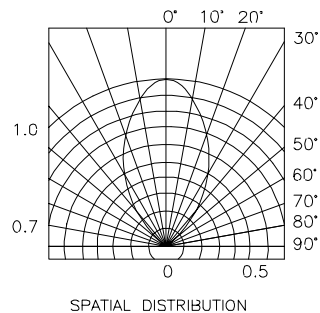
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION