

GHB-3M40D-Y

Features

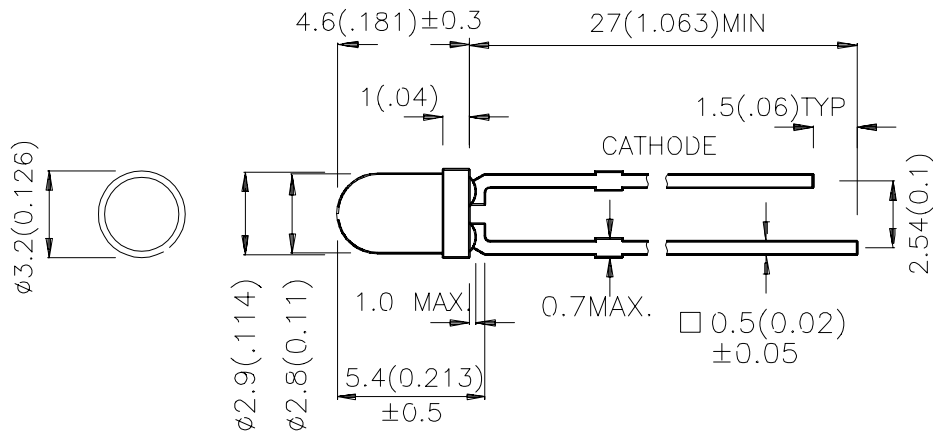
- ▲ LOW POWER CONSUMPTION.
- ▲ POPULAR T-1 DIAMETER PACKAGE.
- ▲ GENERAL PURPOSE LEADS.
- ▲ RELIABLE AND RUGGED.
- ▲ LONG LIFE - SOLID STATE RELIABILITY.

Description

The Super Bright Yellow 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-3M40D-Y	SUPER BRIGHT YELLOW (InGaAlP)	YELLOW DIFFUSED	110	250	40 °

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

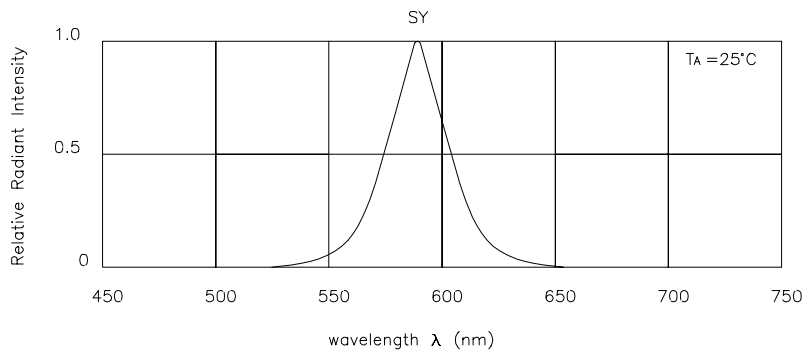
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
peak	Peak Wavelength	Super Bright Yellow	590		nm	I _F =20mA
D	Dominate Wavelength	Super Bright Yellow	588		nm	I _F =20mA
1/2	Spectral Line Half-width	Super Bright Yellow	28		nm	I _F =20mA
C	Capacitance	Super Bright Yellow	25		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Super Bright Yellow	2.0	2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Yellow		10	uA	V _R = 5V

Absolute Maximum Ratings at T_A=25 C

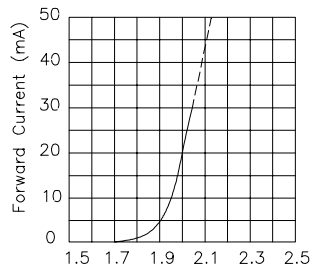
Parameter	Super Bright Yellow	Units
Power dissipation	125	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40 C To +85 C	
Lead Solder Temperature [2]	260 C For 5 Seconds	

Notes:

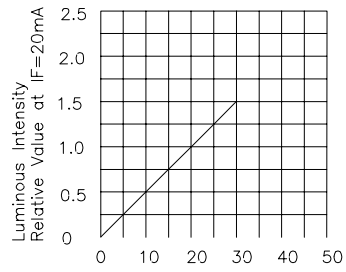
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.



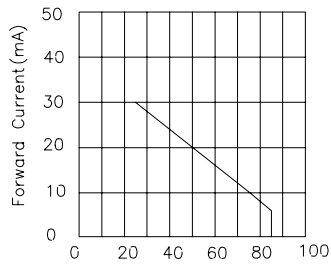
RELATIVE INTENSITY Vs. WAVELENGTH



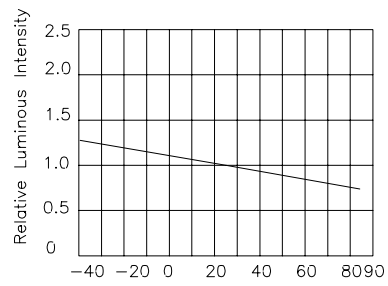
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

