

### GHB-3M30-B

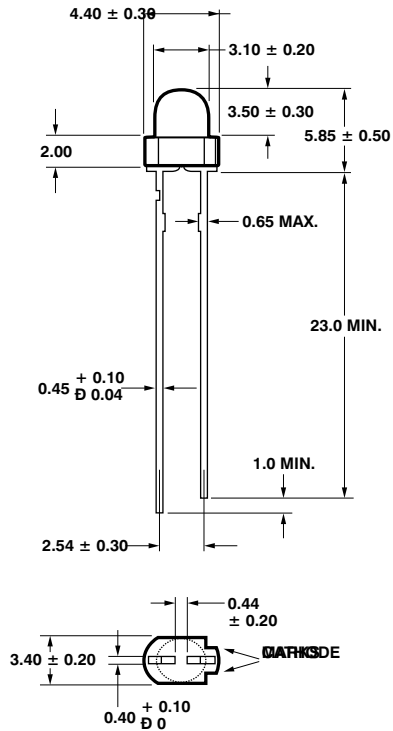
### GHB-3M30-G

### GHB-5M30-B

#### Description

The blue GHB-3M30-B and GHB-5M30-B and green GHB-3M30-G LEDs are designed in an industry standard T-1 3/4 and T-1 packages with clear and non-diffused optics.

#### Package Dimensions



#### NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES).
2. EPOXY MENISCUS MAY EXTEND ABOUT 1 mm (0.040") DOWN THE LEADS.

## Selection Guide

Package Description	Color	Part Number	Luminous Intensity $I_v$ (mcd) @ 20 mA	
			Min.	Max.
T-1 3/4	Blue	GHB-5M30-B	110.0	∅
T-1	Blue	GHB-3M30-B	240.0	∅
	Green	GHB-3M30-G	180.0	∅

## Absolute Maximum Ratings

$T_A = 25^\circ\text{C}$

Parameter	GHB-3M30-B/G-5M30-B
Peak Forward Current	100 mA
DC Current [1]	30 mA
Reverse Voltage ( $I_R = 100 \text{ A}$ )	5 V
LED Junction Temperature	$115^\circ\text{C}$
Operating Temperature	$\emptyset 40$ to $+85^\circ\text{C}$
Storage Temperature	$\emptyset 40$ to $+85^\circ\text{C}$
Dip/Drag Solder Temperature	$260^\circ\text{C}$ for 5 seconds
Wave Solder Temperature	$245^\circ\text{C}$ for 3 seconds
	[1.59 mm (0.060 in.) below seating plane]

### Note:

1. Derate linearly as shown in Figure 4.

## Electrical Characteristics

Part Number	Forward Voltage $V_F$ (volts) $I_F = 20 \text{ mA}$		Reverse Breakdown $V_R$ (volts) $@ I_R = 100 \text{ A}$		Speed Response $t_s$ (ns) Typ.	Capacitance $C$ (pF), $V_F = 0 \text{ V}$ $f = 1 \text{ MHz}$ Typ.	Thermal Resistance $R_{J-PIN}$ (C/W) Junction to Cathode Lead
	Typ.	Max.	Min.	Typ.			
GHB-3M30/5M30-B	3.6	4.2	3.0	30	500	50	290
GHB-3M30-G	3.8	4.2	3.0	30	500	50	290

## Optical Characteristics

$T_A = 25^\circ\text{C}$

Part Number	Luminous Intensity $I_v$ (mcd) @ $I_F = 20 \text{ mA}$		Color, Dominant Wavelength $\lambda_d^{[1]}$ (nm) Typ.	Peak Wavelength $\lambda_{PEAK}$ (nm) Typ.	Viewing Angle $2\theta_{1/2}^{[2]}$ Degrees Typ.
	Min.	Typ.			
GHB-3M30/5M30-B	240	550	470	468	30
GHB-3M30-G	180	1000	527	520	30

### Notes:

- The dominant wavelength,  $\lambda_d$ , is derived from the CIE Chromaticity Diagram and represents the single wavelength which defines the color of the device.
- $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half of the axial luminous intensity.

