

GHB-3M30-B

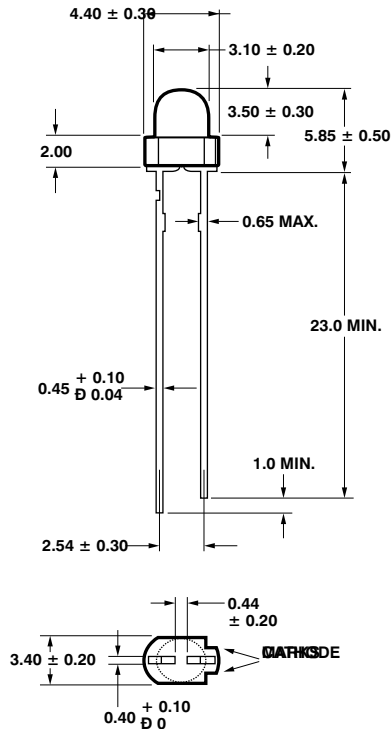
GHB-3M30-G

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



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°C
Operating Temperature	∅40 to +85°C
Storage Temperature	∅40 to +85°C
Dip/Drag Solder Temperature	260 °C for 5 seconds
Wave Solder Temperature	245°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 λ_d ^[1] (nm) Typ.	Peak Wavelength λ_{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:

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

