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GHB-PLCC-CW2

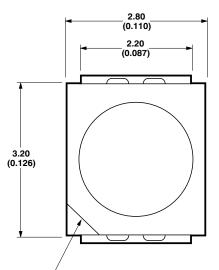
Description

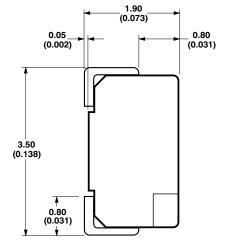
This family of SMT LEDs is packaged in the industry standard PLCC-2 package. These SMT LEDs have high reliability performance and are designed to work under a wide range of environmental conditions. This high reliability feature makes them ideally suited to be used under harsh interior automotive as well as interior signs application conditions.

To facilitate easy pick & place assembly, the LEDs are packed in EIA-compliant tape and reel. Every reel will be shipped in single intensity and color bin.

These LEDs are compatible with IR solder reflow process.

The super wide viewing angle at 120 makes these LEDs ideally suited for panel, push button, or general backlighting in automotive interior, office quipment, industrial equipment, and home appliances.





CATHODE MARKING

NOTE: ALL DIMENSIONS IN MILLIMETERS (INCHES).

Device Selection Guide

Color	Part Number	Min. I _v @ 20 mA	Typical I _V @ 20 mA	
White	GHB-PLCC-CW2	100	300	

Note:

1. The luminous intensity I v, is measured at the mechanical axis of the lamp package. The actual peak of the spatial radiation pattern may not be aligned with this axis.

Absolute Maximum Ratings at T $_{\text{A}}=25 \hat{u} \text{C}$

InGaN	
30 mA	
90 mA	
114 W	
5 V	
110ûC	
Đ55ûC to +100ûC	
Ð55ûC to +100ûC	

Notes:

Derate linearly as shown in Figure 5.
Duty factor = 10%, frequency = 1 kHz.

Electrical Characteristics at T $_{\text{A}}=25 \hat{u} \text{C}$

	Forward	/oltage, V _F (Volts) @ \ddagger = 20 mA	Reverse Voltage, 🖟 @ 10 A	Thermal Resistance
Color	Тур.	Max.	Min.	R _{JP} (C/W)
White	3.5	4.3	5	280

Optical Characteristics at T $_{A} = 25\hat{u}C$

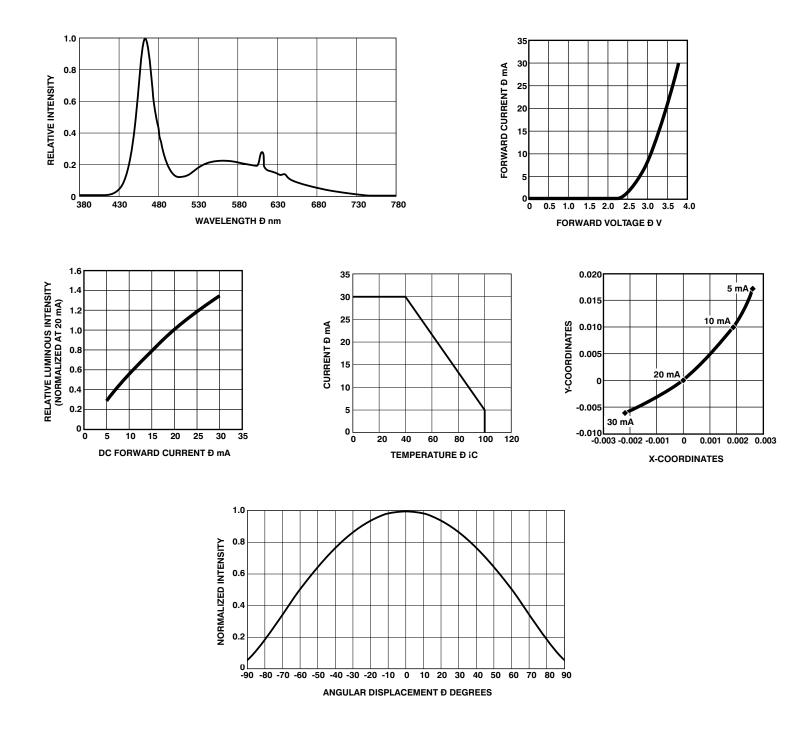
	Туріса	al			Luminous Intensity/	
	Chromaticity Coordinates ^[1]		Viewing Angle 2 _{1/2} [2] (degrees)	Luminous Efficacy v ^[3] (Im/W)	Total Flux l _v (mcd)/ _v (mlm)	
Color	X	у	Тур.	Тур.	Тур.	
White	0.31	0.31	120	260	0.45	

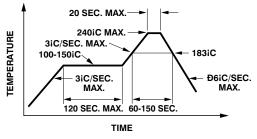
Notes:

1. The chromaticity coordinates are derived from the CIE 1931 Chromaticity Diagram and represent the perceived color of the device.

2. 1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity.

3. Radiant intensity, I_e in watts/steradian, may be calculated from the equation $I_e = \frac{1}{v}$, where I_v is the luminous intensity in candelas and v_v is the luminous efficacy in lumens/watt.





Recommended reflow soldering profile

PRE-HEAT 120-180IC 2-3iC/SEC. 6iC/SEC. MAX.

Recommended wave soldering profile

