

PRODUCT SPECIFICATION

Part Number
PLH0402-WDB08

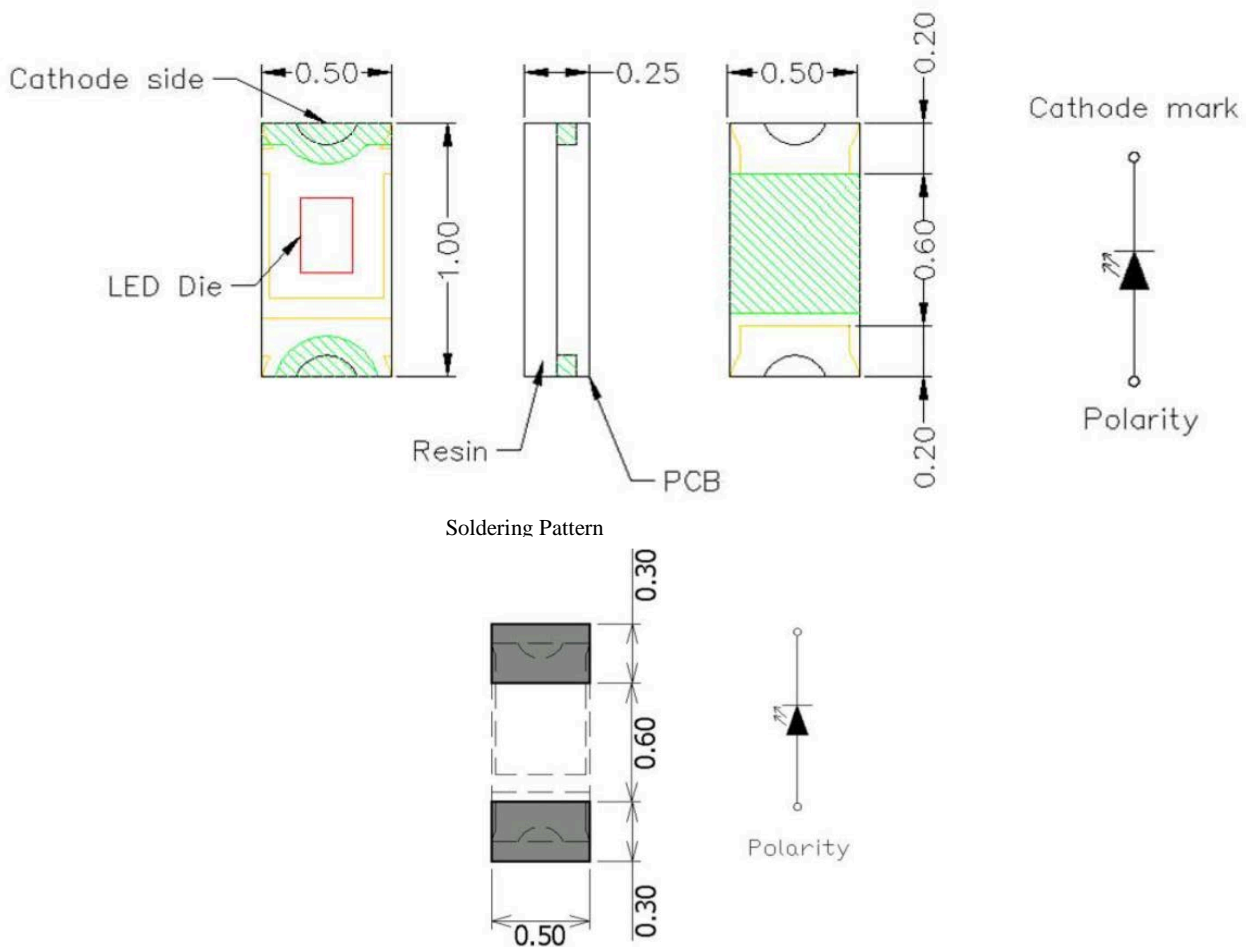
Details

- 0402 SMD LED
- 1.0 x 0.50 x 0.25 mm
- InGaN chip material, Blue
- Packaged on 3,000 piece reels

Features

- Durable and Rugged
- RoHS Compliant
- Thin design

Mechanical Dimensions



Notes:

1. Dimensions in millimeters unless otherwise noted
2. Tolerance is ± 0.1 mm unless otherwise noted.
3. Specifications subject to change without notice





Device Selection Guide

Model Number	Chip		Resin
	Material	Emitting Color	
PLH0402-WDB08	InGaN	Blue	Diffused

Absolute Maximum Ratings at Ta=25°C

P _d (mW)	I _F (mA)	I _{FP} * (mA)	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
15.75	5	60	5	-40°C~+85°C	-40°C~+100°C

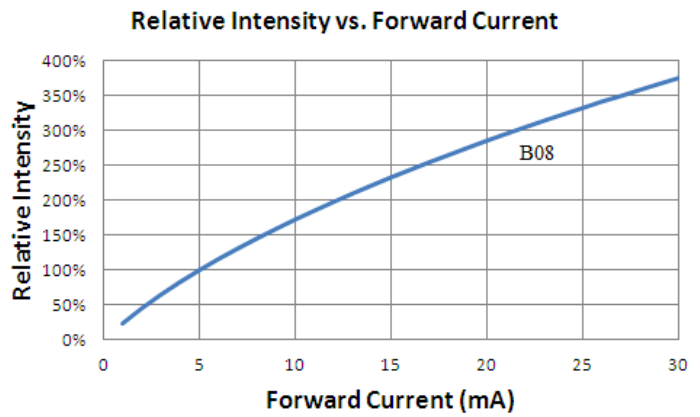
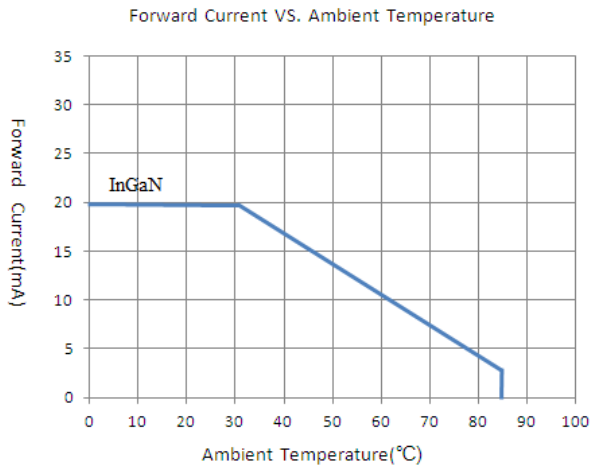
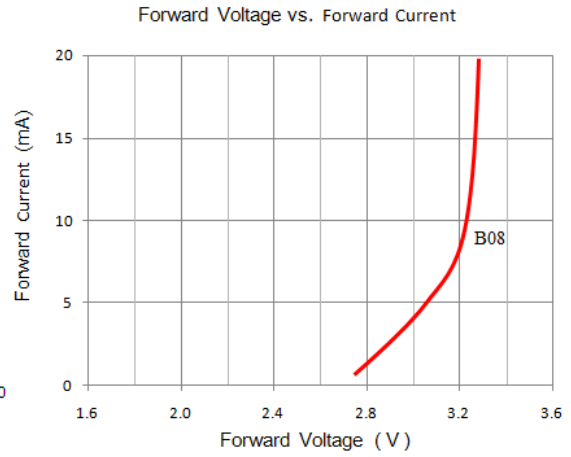
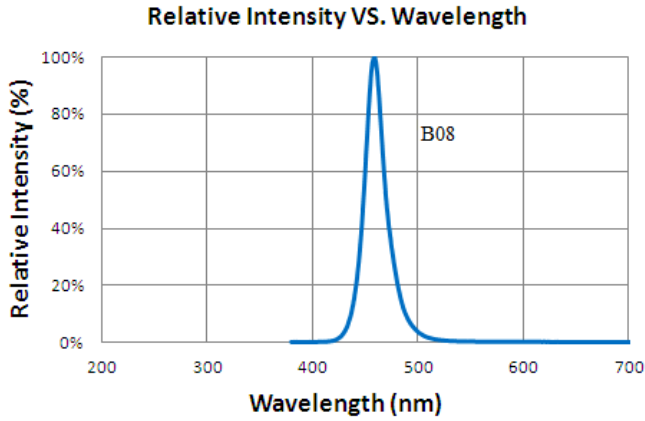
Note: 1. Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width

2. This product should be operated in forward bias. If a reverse voltage is continuously applied to the product, such operation can cause migration resulting in LED damage.

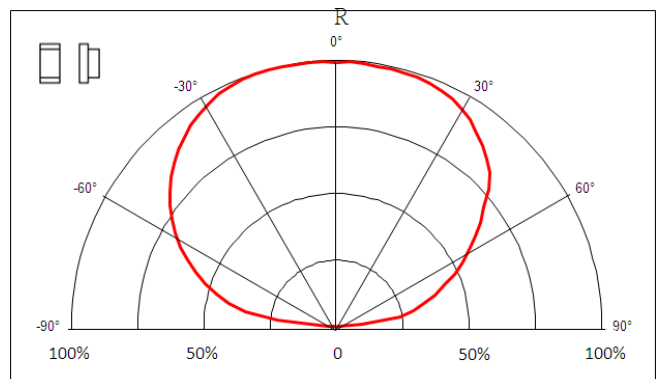
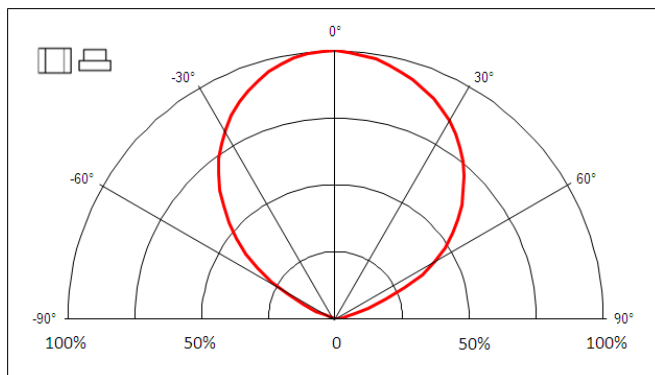
Electrical and Optical Characteristics at Ta=25°C

I _F (mA)	V _F (V)		Wavelength (nm) typ.			I _V * (mcd)	Viewing Angle 20½
	Typ.	Max.	λ _D	λ _P	Δλ	Typ.	
5	2.8	3.15	472	470	40	28.5	X: 100 Y: 130

Electrical and Optical Curves



Directive Characteristics



Luminous Intensity (I_v) Bin

Bin	Luminous Intensity Range (mcd)	
	Minimum	Maximum
M	18.00	28.50
N	28.50	45.00
P	45.00	71.50

Note: @5mA / $T_a=25^{\circ}\text{C}$, Tolerance: $\pm 10\%$

Dominant Wavelength (λ_D) Bin:

Color	Bin Code	Spec. Range
Blue (B08)	AA	460.0-465.0nm
	AB	465.0-470.0nm
	AC	470.0-475.0nm

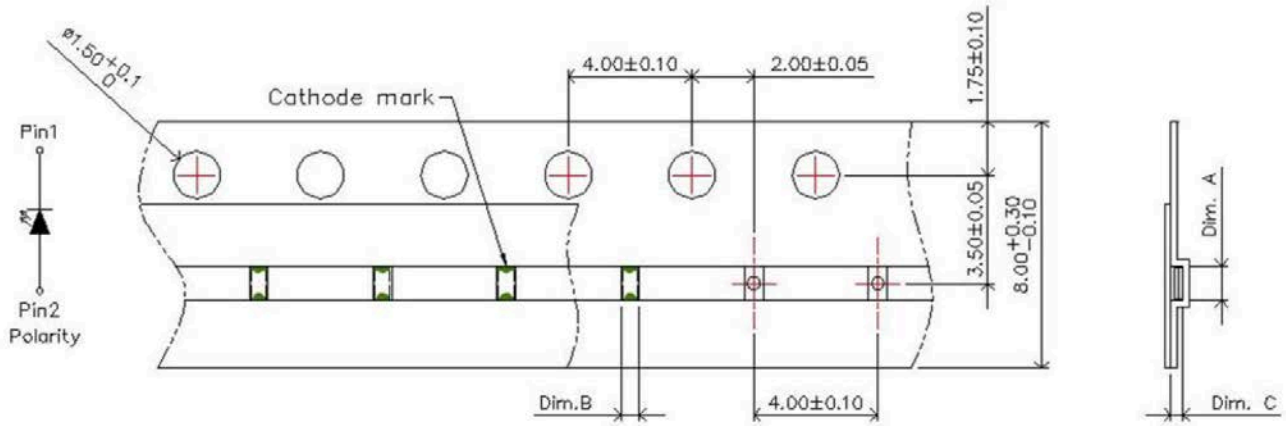
Note: @5mA / $T_a=25^{\circ}\text{C}$, Tolerance: $\pm 0.5\text{nm}$

Forward Voltage (V_F) Bin:

Color	Bin Code	Spec. Range
Blue (B08)	G2T	2.55-2.65V
	G3T	2.65-2.75V
	G4T	2.75-2.85V
	H1T	2.85-2.95V
	H2T	2.95-3.05V
	H3T	3.05-3.15V

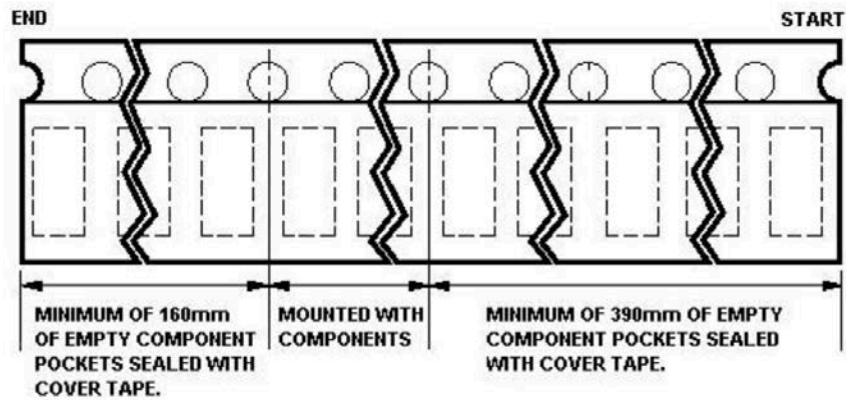
Note: @5mA / $T_a=25^{\circ}\text{C}$, Tolerance: $\pm 0.05\text{V}$

Tape Dimensions

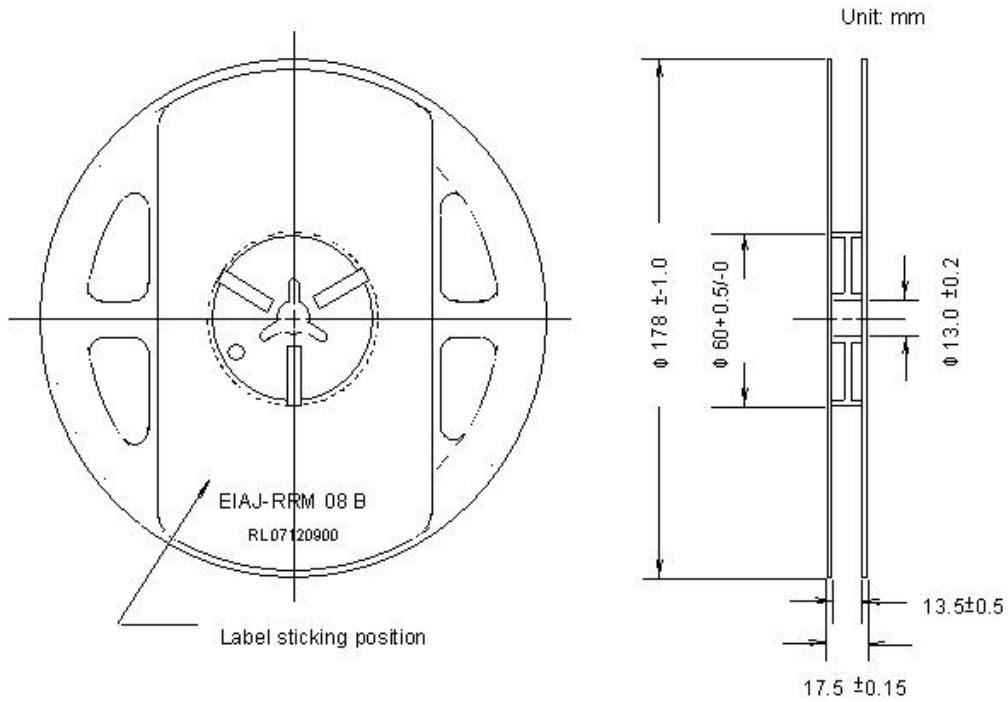


Dim. A	Dim. B	Dim. C	Q'ty/Reel
1.11 ± 0.03	0.60 ± 0.03	0.38 ± 0.03	3K

Unit: mm



Reel Specifications





PLH0402-WDB08 Customer Approval Signatures	Approved By	Checked By	Prepared By

<i>Record Of Revisions</i>			
Rev.	Description	Date	Page
0	Released Spec	09/15/16	--