INH-3SXX80 Series
3mm Round, Single Lamp
Single Level Circuit Board Indicator

Features

- Low power consumption
- High Efficiency
- 3 mm Lamp
- Easy to assembly
- Color Diffused lens
- Good control and free combinations on the colors of Lamps
- Compliance with EU REACH
- The product itself remain within RoHS compliant version

Applications

- Communication
- Industry
- Computer

Description

- CBI (Circuit Board Indicator) is a black plastic right angel holder (Housing).
- CBI (Circuit Board Indicator) is available in a wide variety of packages, including top-view (Spacer) or right angle and horizontal or vertical arrays which is stackable and easy to assembly.

Package Dimensions in mm

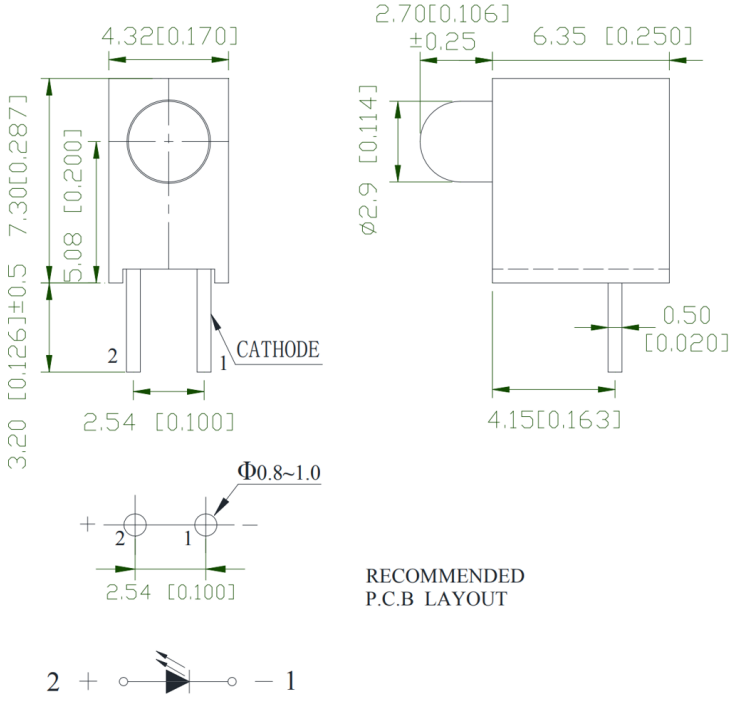


Figure 1. INH-3SXX80 series Package Dimensions

Notes

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm (.039") max.

Absolute Maximum Rating at 25°C

Product	Emission Color	P_d (mW)	I_F (mA)	I_{FP}* (mA)	V_R (V)	T_{OP} (°C)	T_{ST} (°C)
INH-3SAUA80	Amber	65	25	100	5	-40°C~+80°C	-40°C~+85°C
INH-3SGUYG80	Yellow Green	65	25	100	5	-40°C~+80°C	-40°C~+85°C
INH-3SRUDR80	Deep Red	60	25	100	5	-40°C~+80°C	-40°C~+85°C
INH-3SYUY80	Yellow	65	25	100	5	-40°C~+80°C	-40°C~+85°C

Notes

1. Derate linearly as shown in derating curve.
2. Duty Factor = 10%, Frequency = 1kHz.

Electrical and Optical Characteristic (@ 25^{O}C)

Product	Emission Color	I_F(mA)	V_F(V)		λ(nm)			Viewing Angle	I^*_V(mcd)	
			min	max	λ_D	λ_P	△λ	2θ1/2	min	typ.
INH-3SAUA80	Amber	20	1.6	2.6	603	606	35	80	13	30
INH-3SGUYG80	Yellow Green	20	1.6	2.6	571	565	20	80	13	30
INH-3SRUDR80	Deep Red	20	1.6	2.4	640	660	45	80	90	160
INH-3SYUY80	Yellow	20	1.6	2.6	588	590	35	80	13	20

Notes

1. Brightness tolerance = +/- 10%
2. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
3. 2θ 1/2 is the o-axis angle where the luminous intensity is 1/2 the peak intensity.
4. The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

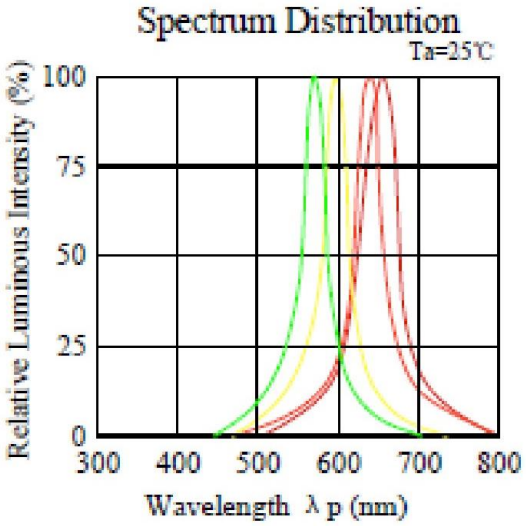
ESD Precaution

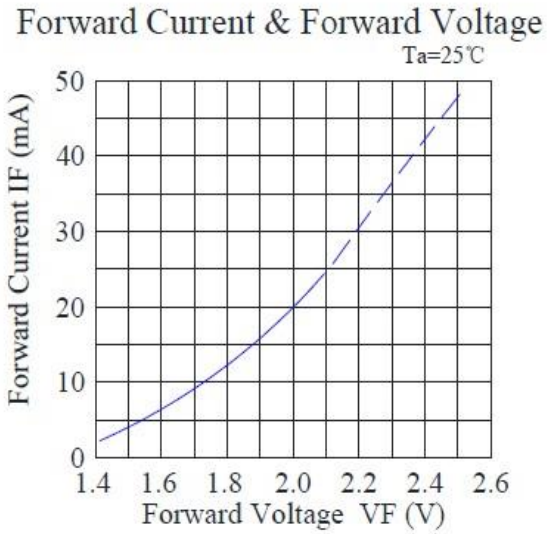
ATTENTION: Electrostatic Discharge (ESD) protection

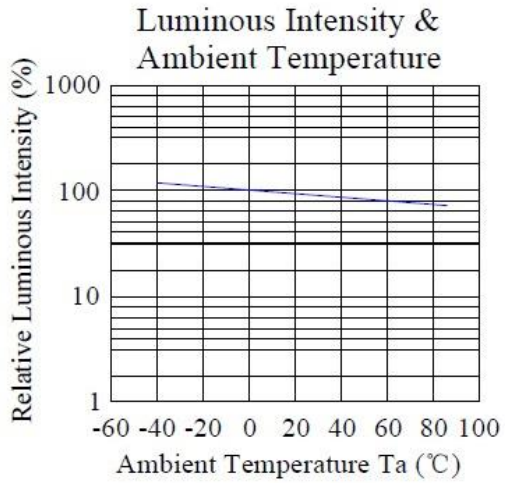
The symbol above denotes that ESD precaution is needed. ESD protection for GaP and AlGaAs based chips is necessary even though they are relatively safe in the presence of low static-electric discharge. Parts built with AlInGaP, GaN, or/and InGaN based chips are STATIC SENSITIVE devices. ESD precaution must be taken during design and assembly.
If manual work or processing is needed, please ensure the device is adequately protected from ESD during the process.

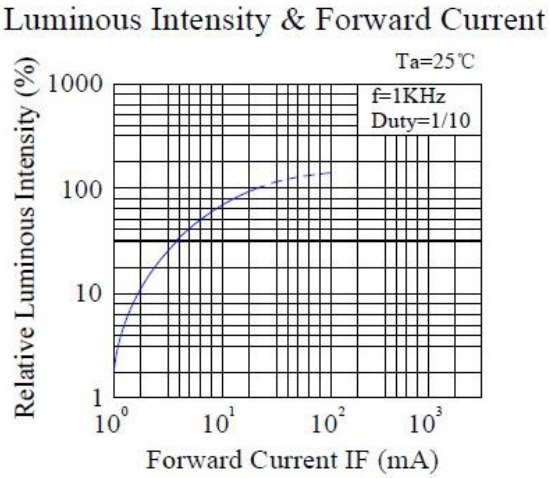
Please be advised that normal static precautions should be taken in the handling and assembly of this device to prevent damage or degradation which may be induced by electrostatic discharge (ESD).

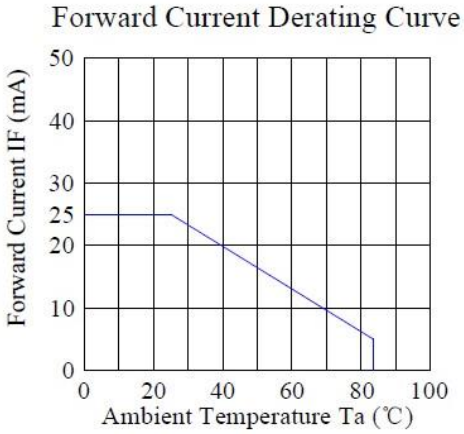
Typical Characteristic Curves: A, YG, DR, Y

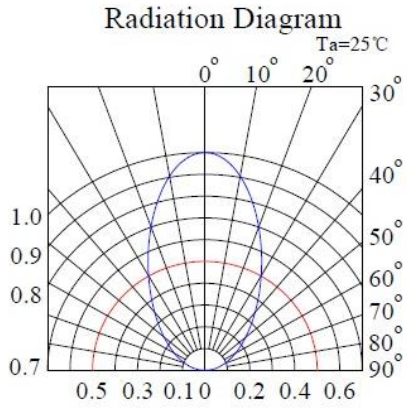








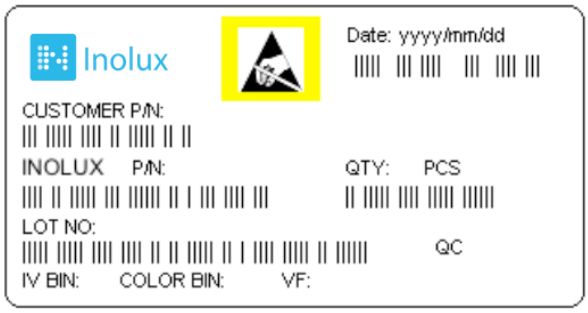




Ordering Information

Product	Emission Color	Test Current IF (mA)	Luminous Intensity IV (mcd) (Typ.)	Forward Voltage VF (V) (Typ.)	Orderable Part Number
INH-3SAUA80	Amber	20	30	2.0	INH-3SAUA80
INH-3SGUYG80	Yellow Green	20	30	2.2	INH-3SGUYG80
INH-3SRUDR80	Deep Red	20	160	2.0	INH-3SRUDR80
INH-3SYUY80	Yellow	20	20	2.0	INH-3SYUY80

Label Specifications



Inolux P/N:

I	N	H	-	3	S	X	X	8	0	-	X	X	X	X
				Package	Lamp	Lens	Color	View Angle			Customized Stamp-off			
Inolux Through Hole with Housing				3 = 3mm	S = 1 Lamp	AU = Amber Diffused GU = Green Diffused RU = Red Diffused YU = Yellow Diffused	A = 605nm YG = 570nm DR = 624nm Y = 590nm	80 = 80 deg.						

Lot No.:

Z	2	0	1	7	01	24	001
Internal Tracker	Year (2017, 2018, …..)				Month	Date	Serial

Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial Release		1.0	06-19-2020

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