

### **Features**

- 3mm Bi-Color Through hole
- 3 leads, 5.3mm lens height
- Common Cathode
- White diffused lens
- Special packaging available upon request
- High reliability

## **Applications**

- Consumer Electronics
- Variable Message Signs (VMS)
- Automobile After Market
- Industrial Equipment
- Advertising Signs

## **Description**

The INL-3DA3URYGP60 is Bi-Color, 3 leads and through-hole lamp. It is a 3mm epoxy type LED which can be used in various applications.

# Package Dimensions in mm

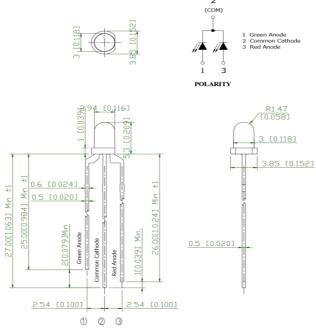


Figure 1. INL-3DA3URYGP60 Package Dimensions

#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm$  0.25 mm (.010  $^{\prime\prime}$  ) unless otherwise noted.
- 3. Protruded resin under flange is 1.00mm (0.39") max.

# INL-3DA3URYGP60 3 mm Bi-Color 3 Leads Through Hole Lamp

# Absolute Maximum Rating at 25°C (Note 1)

Product	Emission Color	Pd (mW)	IF (mA)	IFP* (mA)	VR (V)	TOP (°C)	TST (°C)	
INL-3DA3URYGP60	Red	65	25	100	5	-40°C ~+80°C	-40°C ~+85°C	
INL-SDASOK (GP00	Yellow Green	65						

#### **Notes**

### **Electrical Characteristics** $T_A = 25\%$ (Note 1)

	Emission		V <sub>F</sub> (V)		λ(nm)			Viewing Angle	I* <sub>V</sub> (mcd)	
Product	Color	I <sub>F</sub> (mA)	min	max	λ <sub>D</sub>	λ <sub>P</sub>	Δλ	<b>20</b> 1/2	min	typ.
INII 2DA2LIDVODGO	Red	20	1.6	2.6	630	645	45	60	9	20
INL-3DA3URYGP60	Yellow Green	20	1.6	2.6	571	565	20	60	9	20

**Notes**1. Performance guaranteed only under conditions listed in above tables.

#### **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.

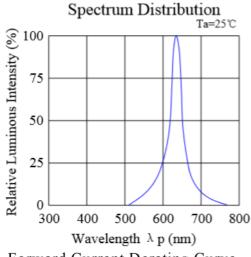
If manual work or processing is needed, please ensure the device is adequately protected from ESD during the process.

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).

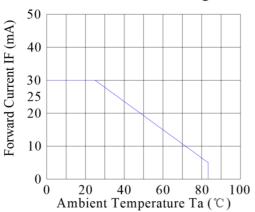
<sup>1.</sup> Condition for IFP is pulse of 1/10 duty and 0.1msec width



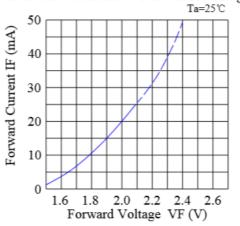
## **Typical Characteristic Curves-Red**



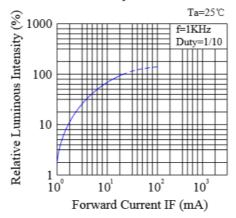
Forward Current Derating Curve

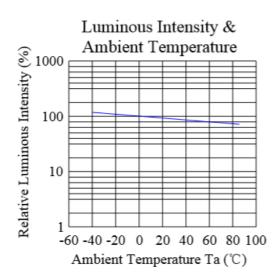


Forward Current & Forward Voltage



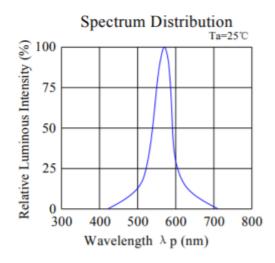
Luminous Intensity & Forward Current

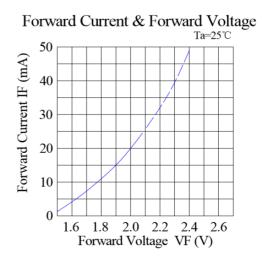


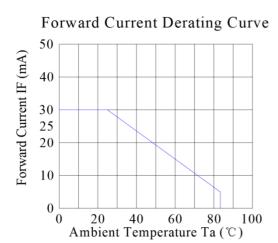


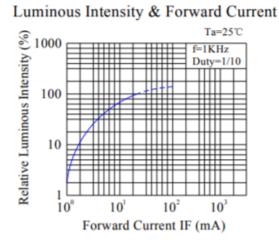


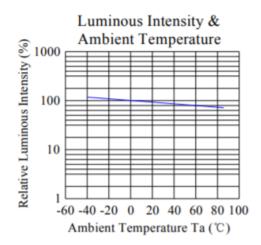
# **Typical Characteristic Curves-Yellow Green**







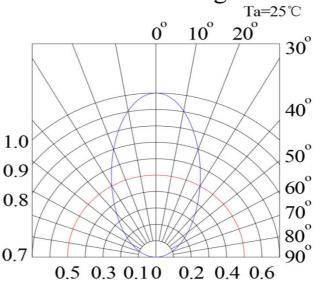






# **Typical Characteristic Curves – Radiation Pattern**



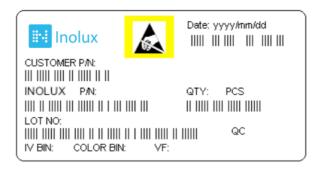


# **Ordering Information**

Product	Emission Color	Test Current I <sub>F</sub> (mA)	Luminous Intensity I <sub>V</sub> (mcd) (Typ.)	Forward Voltage V <sub>F</sub> (V) (Typ.)	Orderable Part Number
INI 2DA2LIBVODGO	Red	20	20	2.0	INII 3DA3LIBVODGO
INL-3DA3URYGP60	Yellow Green	20	20	2.0	INL-3DA3URYGP60

# INL-3DA3URYGP60 3 mm Bi-Color 3 Leads Through Hole Lamp

## **Label Specifications**



## Inolux P/N:

ı	N	L	-	3	DA	3	U	RYG	Р	60	-	Χ	Χ	Х	Х						
				Material		Material		Material		Material		Lead Number	Lens	Color	Chip Type	View Angle				mize p-off	
Thr	Inolux rough I Lamp	Hole		Stan 3mm	A = dard i dual nip	3 = 3 leads	U = Diffused Lens	R = 630nm YG=571nm	P = GaP	60 = 60 deg.											

## Lot No.:

Z	2	0	1	7	01	24	001
Internal		Year (2017	Month	Date	Serial		
Tracker		real (2017	, 2010,)	WOILLI	Date	Serial	

# INL-3DA3URYGP60 3 mm Bi-Color 3 Leads Through Hole Lamp

# Reliability

' '	Standards	Conditions				
ures	Reference					
	J-STD-020	1.) Baking at 85°C for 24hrs				
		2.) Moisture storage at 85°C/60% R.H. for				
		168hrs				
/ 1/ 22/ 0	JESD22-B102-B	Accelerated aging 155°C/ 24hrs				
	And CNS-5068	Tinning speed: 2.5+0.5cm/s				
		Tinning: A: 215°C/ 3+1s or B: 260°C/ 10+1s				
	CNS-5067	Dipping soldering terminal only				
		Soldering bath temperature				
		A: 260+/-5°C; 10+/-1s				
		B: 350+/-10°C; 3+/-0.5s				
/ 1/ 40/ 0	CNS-11829	1.) Precondition: 85°C baking for 24hrs				
		85°C/ 60%R.H. for 168hrs				
		2.) Tamb25°C; IF=20mA; duration 1000hrs				
/ 1/ 45/ 0	JESD-A101-B	Tamb: 85°C				
		Humidity: 85% R.H., IF=5mA				
		Duration: 1000hrs				
/ 1/ 20	IN specs.	Tamb: 55°C				
	•	IF=20mA				
		Duration: 1000hrs				
/ 1/ 40/ 0		Tamb25°C, If=20mA,, Ip=100mA, Duty				
		cycle=0.125 (tp=125µ s,T=1sec)				
		Duration 500hrs)				
/ 1/ 76/ 0	JESD-A104-A	A cycle: -40 degree C 15min; +85 degree C				
	IEC 68-2-14. Nb	15min				
		Thermal steady within 5 min				
		300 cycles				
		2 chamber/ Air-to-air type				
/ 1/ 40/ 0	CNS-6117	60+3°C				
	- <del>-</del> · · ·	90+5/-10% R.H. for 500hrs				
/ 1/ 40/ 0	CNS-554	100+10°C for 500hrs				
/ 1/ 40/ 0	CNS-6118	-40+5°C for 500hrs				
	all reliability nitoring tests according EDEC Level 2 1/22/0 1/40/0 1/45/0 1/46/0 1/46/0 1/40/0 1/40/0 1/40/0	all reliability nitoring tests according EDEC Level 2  1/ 22/ 0  JESD22-B102-B And CNS-5068  CNS-5067  CNS-5067  1/ 40/ 0  JESD-A101-B  1/ 40/ 0  JESD-A104-A IEC 68-2-14, Nb  1/ 40/ 0  CNS-554				



# INL-3DA3URYGP60 3 mm Bi-Color 3 Leads Through Hole Lamp

# **Revision History**

Changes since last revision	Page	Version No.	Revision Date
Initial Release		1.0	07-15-2019

### **DISCLAIMER**

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- 2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.