

Features

- 3mm Bi-Color Through hole, 5.3mm lens height
- 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-3DAUYYGP60 is Bi-Color through-hole lamp. It is a 3mm epoxy type LED which can be used in various applications.

Package Dimensions in mm

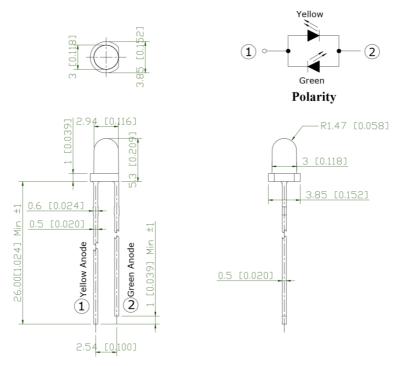


Figure 1. INL-3DAUYYGP60 Package Dimensions

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.



Absolute Maximum Rating at 25°C (Note 1)

Product	Emission Color	Pd (mW)	IF (mA)	IFP* (mA)	VR (V)	TOP (°C)	TST (°C)
INL-3DAUYYGP60	Yellow	70	20	100	E	40°C . 80°C	40°C .05°C
INL-3DAUTTGF60	Yellow Green	78	30	100	5	-40°C ~+80°C	-40°C ~+85°C

Notes

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

5.1.	F : 0 l		$V_F(V) \hspace{1cm} \lambda(nm) \hspace{1cm} Viewing \\ Angle \\$		λ(nm)		I* _V (mcd)			
Product	Emission Color	I _F (mA)	min	max	λ	λР	Δλ	20 1/2	min	typ.
INI 2DALIVVODGO	Yellow	20	1.6	2.6	588	590	35	60	1	9
INL-3DAUYYGP60	Yellow Green	20	1.6	2.6	571	565	20	60	6	13

Notes1. 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.

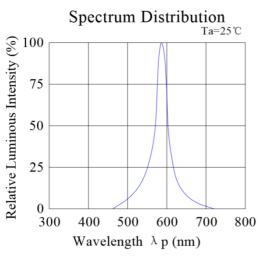
If manual work or processing is needed, please ensure the device is adequately protected from ESD during the process.

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).

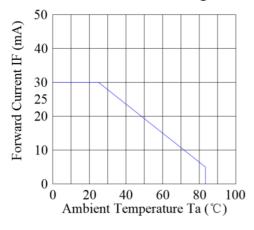
^{1.} Condition for IFP is pulse of 1/10 duty and 0.1msec width



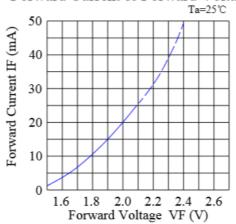
Typical Characteristic Curves-Yellow



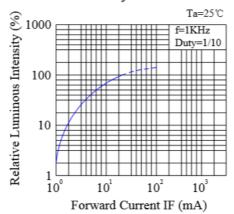
Forward Current Derating Curve

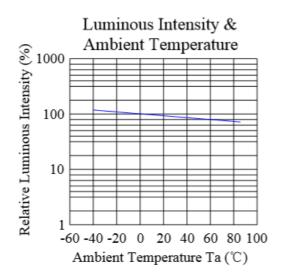


Forward Current & Forward Voltage



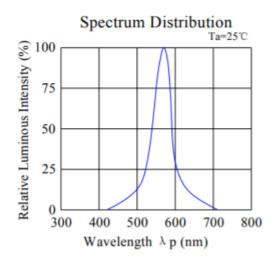
Luminous Intensity & Forward Current







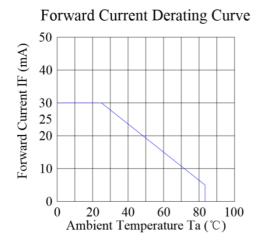
Typical Characteristic Curves-Yellow Green

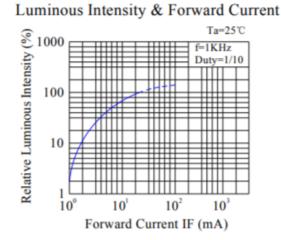


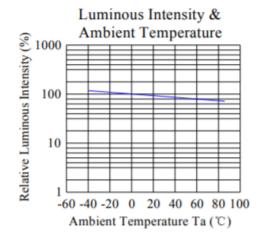
Forward Current & Forward Voltage

Ta=25°C

Ta=2



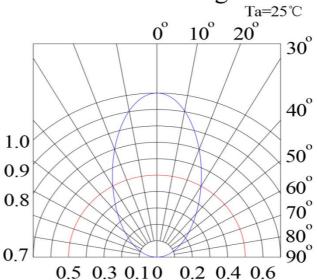






Typical Characteristic Curves – Radiation Pattern



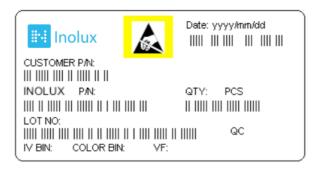


Ordering Information

Product	Emission Color	Test Current I _F (mA)	Luminous Intensity I _V (mcd) (Typ.)	Forward Voltage V _F (V) (Typ.)	Orderable Part Number
INL-3DAUYYGP60	Yellow	20	9	2.0	INL-3DAUYYGP60
INL-SDAUTTGP60	Yellow Green	20	13	2.0	INL-SDAUTTGP60



Label Specifications



Inolux P/N:

1	N	L	-	3	DA	U	YYG	Р	60	-	Х	Х	Х	Χ
				Mater	ial	Lens	Color	Chip Type	View Angle				mized p-off	
Thi	Inolux rough H Lamp	lole		3DA = Sta 3mm dua		U = Diffused Lens	Y = 588nm 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	



Reliability

Item	Frequency/ lots/ samples/	Standards	Conditions
liteiii	failures	Reference	
	For all reliability	J-STD-020	1.) Baking at 85°C for 24hrs
Precondition	monitoring tests according		2.) Moisture storage at 85°C/ 60% R.H. for
	to JEDEC Level 2		168hrs
	1Q/ 1/ 22/ 0	JESD22-B102-B	Accelerated aging 155°C/ 24hrs
Solderability		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
Resistance to			Soldering bath temperature
soldering heat			A: 260+/-5°C; 10+/-1s
			B: 350+/-10°C; 3+/-0.5s
	1Q/ 1/ 40/ 0	CNS-11829	1.) Precondition: 85°C baking for 24hrs
Operating life test			85°C/ 60%R.H. for 168hrs
			2.) Tamb25°C; IF=20mA; duration 1000hrs
High humidity,	1Q/ 1/ 45/ 0	JESD-A101-B	Tamb: 85°C
high temperature			Humidity: 85% R.H., IF=5mA
bias			Duration: 1000hrs
High temperature	1Q/ 1/ 20	IN specs.	Tamb: 55°C
bias			IF=20mA
DIAS			Duration: 1000hrs
	1Q/ 1/ 40/ 0		Tamb25°C, If=20mA,, Ip=100mA, Duty
Pulse life test			cycle=0.125 (tp=125µ s,T=1sec)
			Duration 500hrs)
	1Q/ 1/ 76/ 0	JESD-A104-A	A cycle: -40 degree C 15min; +85 degree C
Tomporoturo		IEC 68-2-14, Nb	15min
Temperature		,	Thermal steady within 5 min
cycle			300 cycles
			2 chamber/ Air-to-air type
High humidity	1Q/ 1/ 40/ 0	CNS-6117	60+3°C
storage test			90+5/-10% R.H. for 500hrs
High temperature	1Q/ 1/ 40/ 0	CNS-554	100+10°C for 500hrs
storage test			
Low temperature	1Q/ 1/ 40/ 0	CNS-6118	-40+5°C for 500hrs
storage test			





Revision History

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

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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.