

Features

- 5mm Bi-Color Through hole
- 3 leads, 8.65mm 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-5DB3UYYGP60 is Bi-Color, 3 leads and through-hole lamp. It is a 5mm epoxy type LED which can be used in various applications.

Package Dimensions in mm

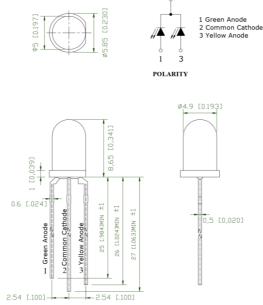


Figure 1. INL-5DB3UYYGP60 Package Dimensions

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-5DB3UYYGP60 5 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-5DB3UYYGP60	Yellow	G.F.	25	100	E	40°C00°C	4000 .0500	
IIIL-SDBSUTTGF60	Yellow Green	65	20	100	5	-40°C ~+80°C	-40°C ~+85°C	

Notes

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

	Emission	Emission		V _F (V)		λ(nm)			I* _V (mcd)	
Product	Color	I _F (mA)	min	max	λ _D	λ P	Δλ	20 1/2	min	typ.
INII EDDALIVYODGO	Yellow	20	1.6	2.6	588	590	35	60	9	20
INL-5DB3UYYGP60	Yellow Green	20	1.6	2.6	570	565	30	60	9	20

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.

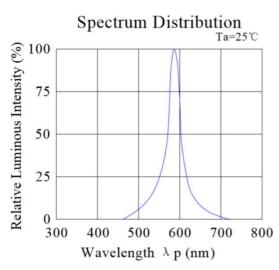
If manual work or processing is needed, please ensure the device is adequately protected from ESD during the process.

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).

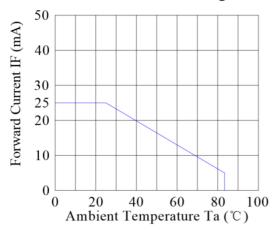
^{1.} Condition for IFP is pulse of 1/10 duty and 0.1msec width



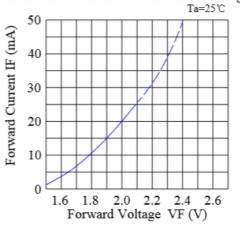
Typical Characteristic Curves-Yellow



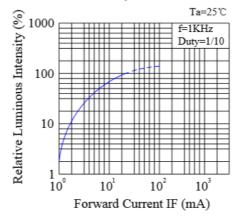
Forward Current Derating Curve

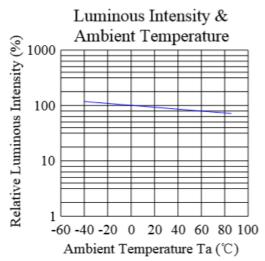


Forward Current & Forward Voltage



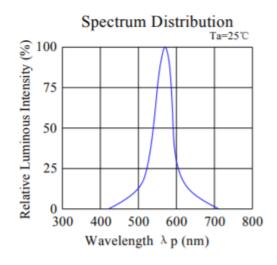
Luminous Intensity & Forward Current

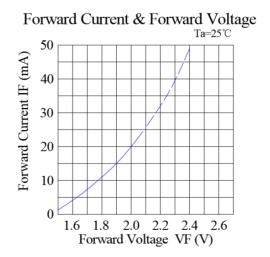


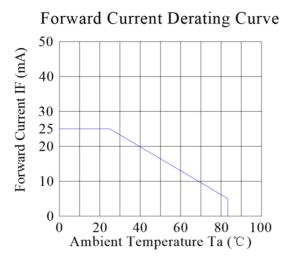


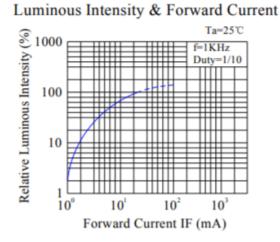


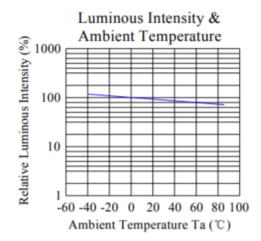
Typical Characteristic Curves-Yellow Green







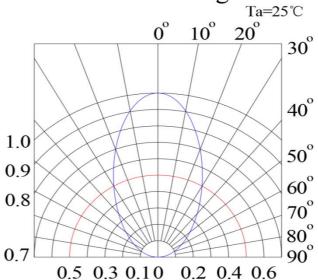






Typical Characteristic Curves – Radiation Pattern



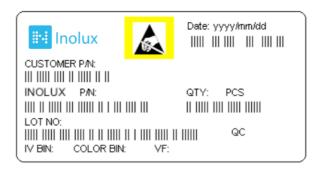


Ordering Information

Product	Emission Color	Test Current I _F (mA)	Luminous Intensity I _V (mcd) (Typ.)	Forward Voltage V _F (V) (Typ.)	Orderable Part Number
INI EDDALIVYODEO	Red	20	20	2.0	INL-5DB3UYYGP60
INL-5DB3UYYGP60	Yellow Green	20	20	2.0	INC-SUBSUTTGP60



Label Specifications



Inolux P/N:

I	N	L	-	5	DB	3	U	YYG	Р	60	-	Х	Х	Х	Χ
				Mat	erial	Lead Number	Lens	Color	Chip Type	View Angle				mized p-off	
	Inolux ough I Lamp	lole		Stan 5mm 8.65	B = dard bullet imm chips	3 = 3 leads	U = Diffused Lens	Y = 588nm YG=570nm	P = GaP	60 = 60 deg.					

Lot No.:

Z	2	0	1	7	01	24	001
Internal		Voor (2017	2019 \	Month	Date	Serial	
Tracker		Year (2017, 2018,)				Date	Serial

INL-5DB3UYYGP60 5 mm Bi-Color 3 Leads Through Hole Lamp

Reliability

1.) Baking at 85°C for 24hrs				
1.) Baking at 85°C for 24hrs				
1				
2.) Moisture storage at 85°C/ 60% R.H. for				
168hrs				
2-B Accelerated aging 155°C/ 24hrs				
8 Tinning speed: 2.5+0.5cm/s				
Tinning: A: 215°C/ 3+1s or B: 260°C/ 10+1s				
Dipping soldering terminal only				
Soldering bath temperature				
A: 260+/-5°C; 10+/-1s				
B: 350+/-10°C; 3+/-0.5s				
1.) Precondition: 85°C baking for 24hrs				
85°C/ 60%R.H. for 168hrs				
2.) Tamb25°C; IF=20mA; duration 1000hrs				
Tamb: 85°C				
Humidity: 85% R.H., IF=5mA				
Duration: 1000hrs				
Tamb: 55°C				
IF=20mA				
Duration: 1000hrs				
Tamb25°C, If=20mA,, Ip=100mA, Duty				
cycle=0.125 (tp=125µ s,T=1sec)				
Duration 500hrs)				
A cycle: -40 degree C 15min; +85 degree C				
Nb 15min				
Thermal steady within 5 min				
300 cycles				
2 chamber/ Air-to-air type				
60+3°C				
90+5/-10% R.H. for 500hrs				
100+10°C for 500hrs				
133.13 3.3.333.113				
-40+5°C for 500hrs				



INL-5DB3UYYGP60 5 mm Bi-Color 3 Leads Through Hole Lamp

Revision History

Changes since last revision	P	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.