

Absolute Maximum Rating at 25°C (Note 1)

Product (Per Segment)	Emission Color	Technology	P _d (mW)	I _F (mA)	I _{FP} * (mA)	V _R (V)	Derate From 25°C (mA/°C)	T _{OP} (°C)	T _{ST} (°C)
INND-SS40YGXX	Yellow Green	AlGaInP	70	25	90	5	0.33	-40 °C ~+105 °C	-40 °C ~+105 °C
INND-SS40YXX	Yellow	AlGaInP	70	25	90	5	0.33	-40 °C ~+105 °C	-40 °C ~+105 °C
INND-SS40AXX	Amber	AlGaInP	70	25	90	5	0.33	-40 °C ~+105 °C	-40 °C ~+105 °C
INND-SS40RXX	Red	AlGaInP	70	25	90	5	0.33	-40 °C ~+105 °C	-40 °C ~+105 °C
INND-SS40DRXX	Deep Red	AlGaInP	70	25	90	5	0.33	-40 °C ~+105 °C	-40 °C ~+105 °C
INND-SS40GXX	Green	InGaP	114	30	100	5	0.4	-40 °C ~+105 °C	-40 °C ~+105 °C
INND-SS40BXX	Blue	InGaP	114	30	100	5	0.4	-40 °C ~+105 °C	-40 °C ~+105 °C
INND-SS40WXX	White	InGaP	114	30	100	5	0.4	-40 °C ~+105 °C	-40 °C ~+105 °C

Notes

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

Electrical Characteristics $T_A = 25^\circ\text{C}$ (Note 1)

Product (Per Segment)	Emission Color	$V_F(\text{V})@20\text{mA}$			$\lambda(\text{nm})@20\text{mA}$		$I_V(\text{mcd})@10\text{mA}$			$I_R(\mu\text{A})@V_R=5\text{V}$	$I_{V-M}@I_F=10\text{mA}$
		min	typ.	max	λ_D	λ_P	min	typ.	max	max	max
INND-SS40YGXX	Yellow Green	-	2.0	2.8	570	572	-	2	-	100	2:1
INND-SS40YXX	Yellow	-	2.0	2.8	590	592	-	13	-	100	2:1
INND-SS40AXX	Amber	-	2.0	2.8	605	612	-	13	-	100	2:1
INND-SS40RXX	Red	-	2.0	2.8	630	644	-	4	-	100	2:1
INND-SS40DRXX	Deep Red	-	2.0	2.8	645	660	-	4	-	100	2:1
INND-SS40GXX	Green	-	3.2	3.8	525	-	-	47	-	100	2:1
INND-SS40BXX	Blue	-	3.2	3.8	-	465	-	7	-	50	2:1
INND-SS40WXX	White	-	3.2	3.8	X: 0.27 Y: 0.25	-	-	30	-	50	2:1

Notes

- 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).

Characteristic Curves for YG, Y, A, R, DR, G

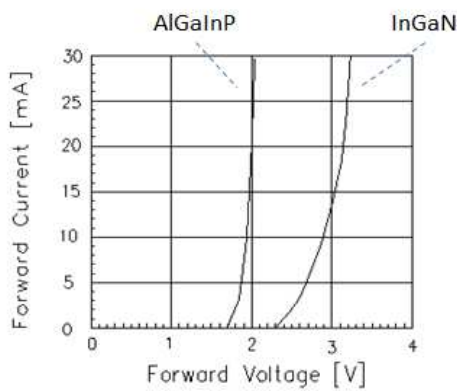


Fig 1. Forward Current vs. Forward Voltage

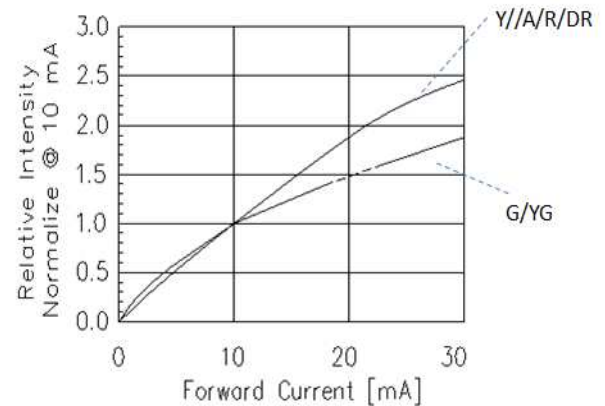


Fig 2. Relative Intensity vs. Forward Current

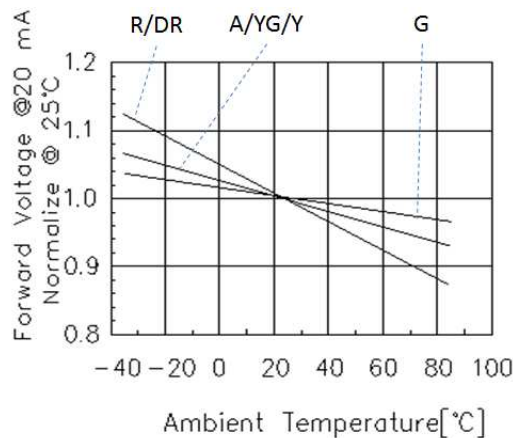


Fig 3. Forward Voltage vs. Temperature

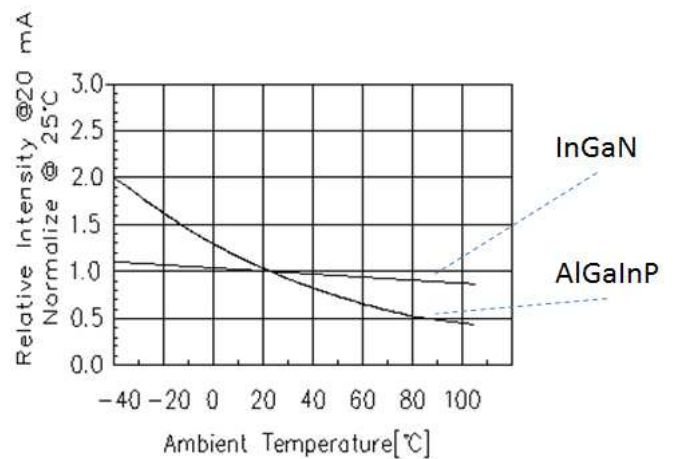


Fig 4. Relative Intensity vs. Temperature

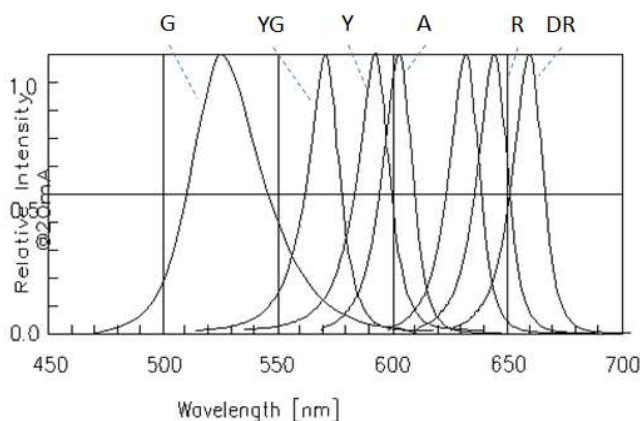


Fig 5. Relative Intensity vs. Wavelength

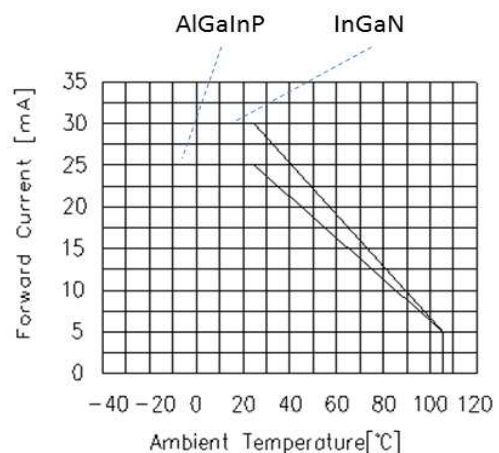


Fig 6. Forward current vs. Temperature

Characteristic Curves for B

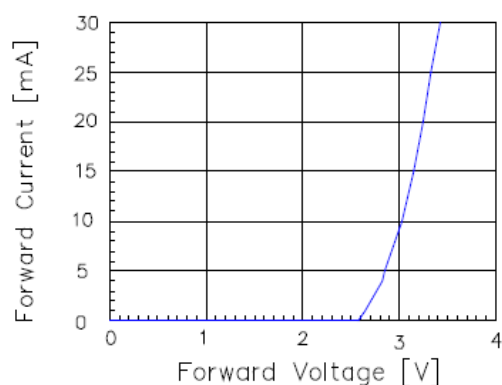


Fig 1. Forward Current vs. Forward Voltage

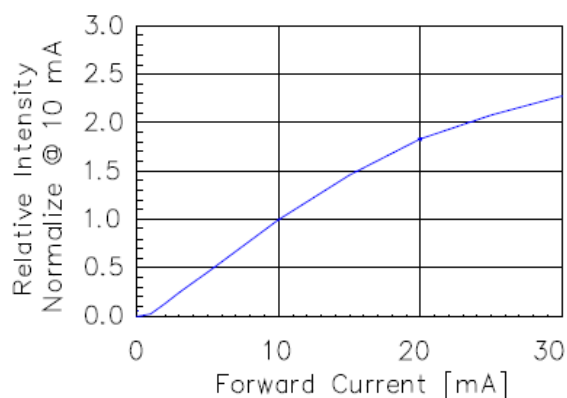


Fig 2. Relative Intensity vs. Forward Current

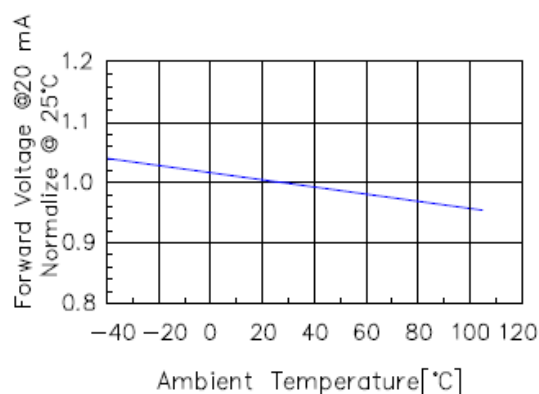


Fig 3. Forward Voltage vs. Temperature

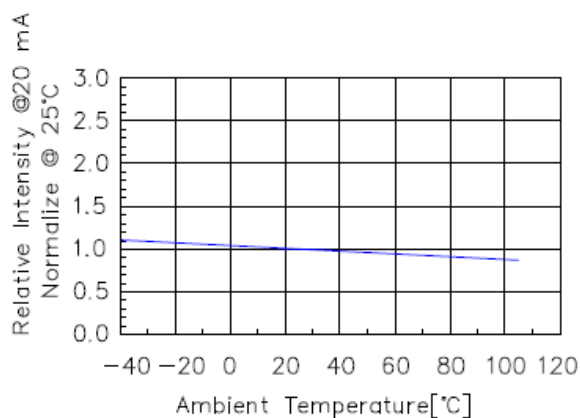


Fig 4. Relative Intensity vs. Temperature

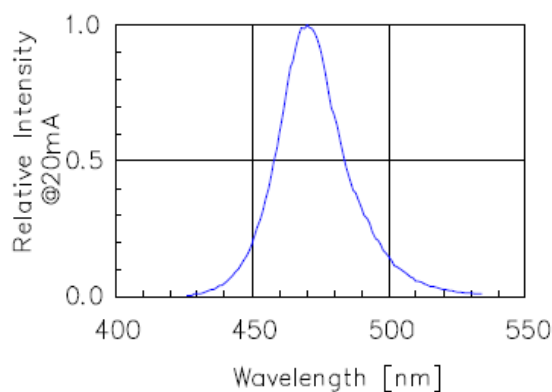


Fig 5. Relative Intensity vs. Wavelength

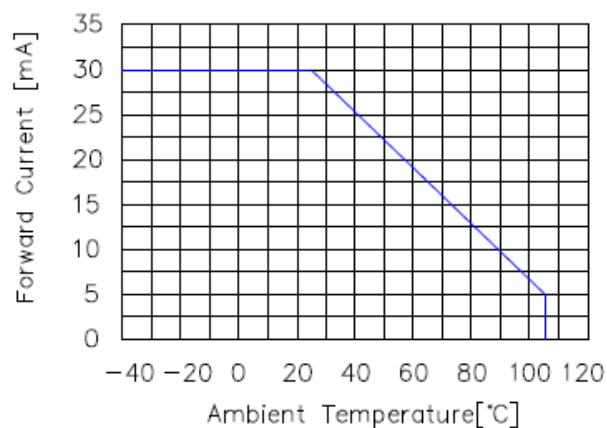


Fig 6. Forward current vs. Temperature

Characteristic Curves for W



Fig 1. Forward Current vs. Forward Voltage

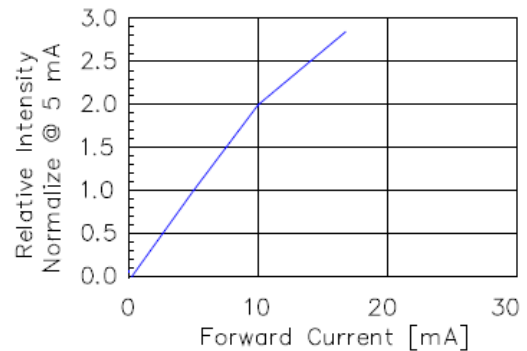


Fig 2. Relative Intensity vs. Forward Current

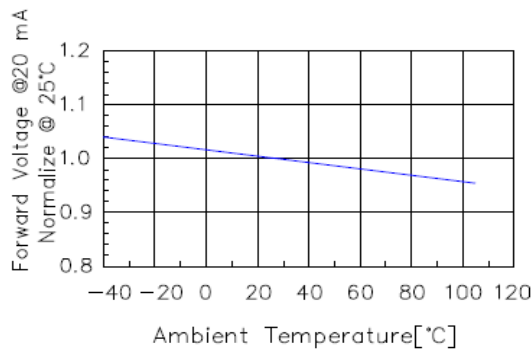


Fig 3. Forward Voltage vs. Temperature

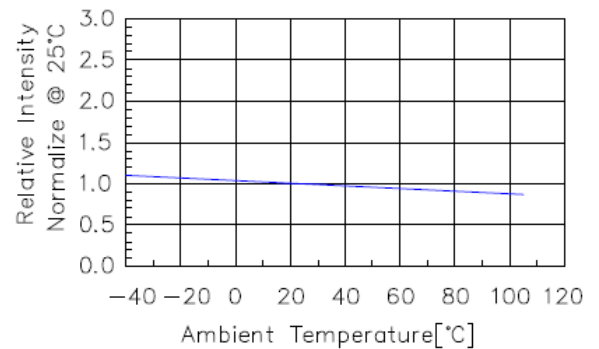


Fig 4. Relative Intensity vs. Temperature

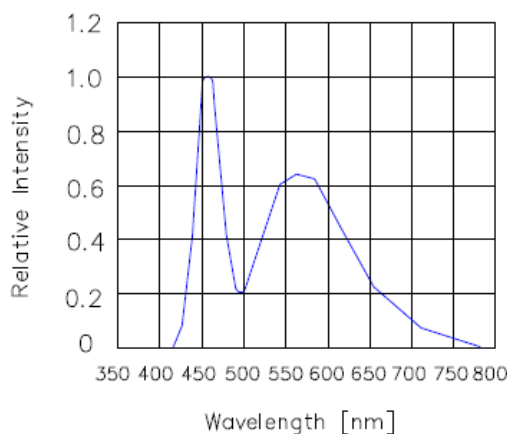


Fig 5. Relative Intensity vs. Wavelength

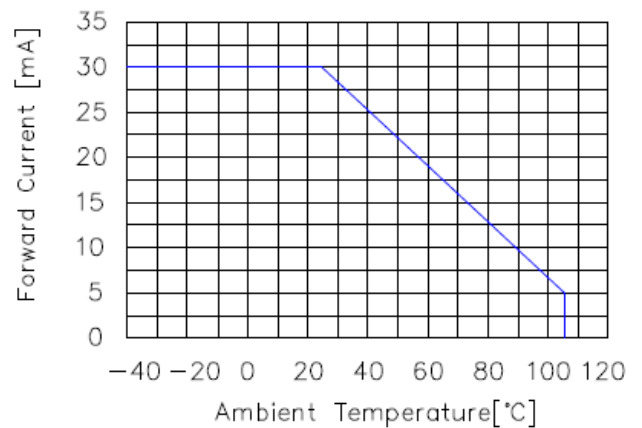
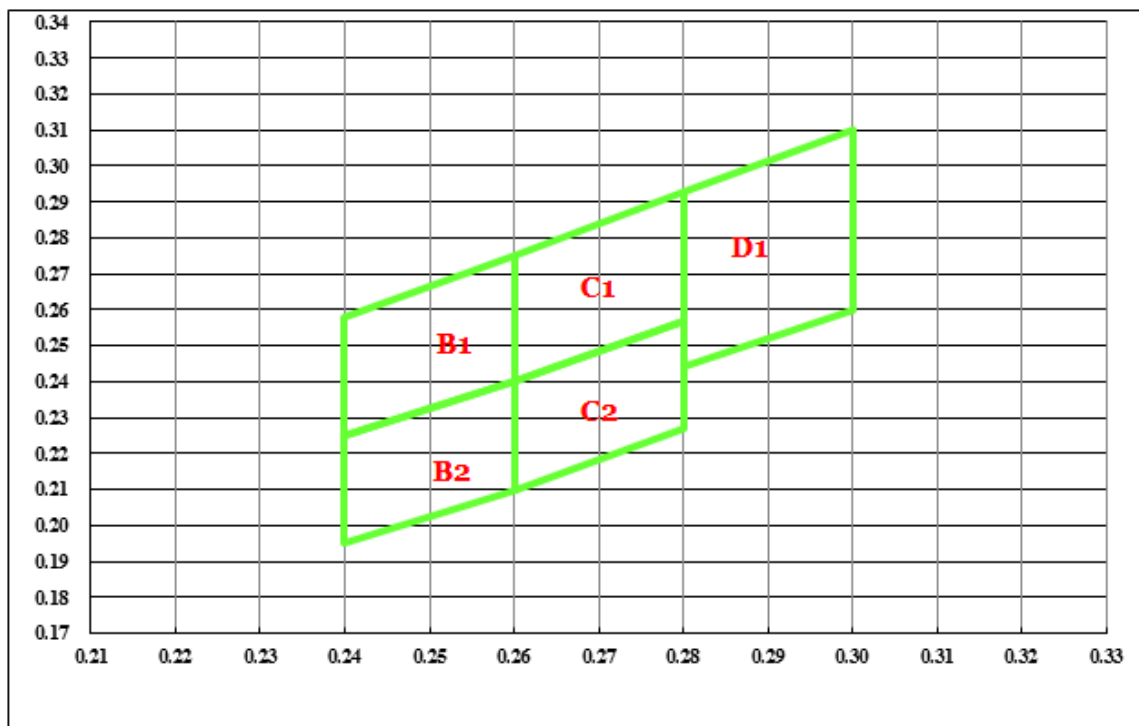


Fig 6. Forward current vs. Temperature

Chromaticity Bin (for White only)


B1				
X	0.240	0.240	0.260	0.260
Y	0.225	0.258	0.275	0.240

B2				
X	0.240	0.240	0.260	0.260
Y	0.195	0.225	0.240	0.210

C1				
X	0.260	0.260	0.280	0.280
Y	0.240	0.275	0.293	0.257

C2				
X	0.260	0.260	0.280	0.280
Y	0.210	0.240	0.257	0.227

D1				
X	0.280	0.280	0.300	0.300
Y	0.244	0.293	0.310	0.260

Ordering Information

Product	Emission Color	Technology	I*V(mcd) @10mA	VF(V) @20mA	Polarity	Face Color	Orderable Part Number
INND-SS40YGXX	Yellow Green	AlGaInP	2	2.0	Common Anode	Black	INND-SS40YGAB
					Common Cathode	Black	INND-SS40YGCB
					Common Anode	Grey	INND-SS40YGAG
					Common Cathode	Grey	INND-SS40YGCG
INND-SS40YXX	Yellow	AlGaInP	13	2.0	Common Anode	Black	INND-SS40YAB
					Common Cathode	Black	INND-SS40YCB
					Common Anode	Grey	INND-SS40YAG
					Common Cathode	Grey	INND-SS40YCG
INND-SS40AXX	Amber	AlGaInP	13	2.0	Common Anode	Black	INND-SS40AAB
					Common Cathode	Black	INND-SS40ACB
					Common Anode	Grey	INND-SS40AAG
					Common Cathode	Grey	INND-SS40ACG
INND-SS40RXX	Red	AlGaInP	4	2.0	Common Anode	Black	INND-SS40RAB
					Common Cathode	Black	INND-SS40RCB
					Common Anode	Grey	INND-SS40RAG
					Common Cathode	Grey	INND-SS40RCG

Product	Emission Color	Technology	I*V(mcd) @10mA	VF(V) @20mA	Polarity	Face Color	Orderable Part Number
INND-SS40DRXX	Deep Red	AlGaInP	4	2.0	Common Anode	Black	INND-SS40DRAB
					Common Cathode	Black	INND-SS40DRCB
					Common Anode	Grey	INND-SS40DRAG
					Common Cathode	Grey	INND-SS40DRCG
INND-SS40GXX	Green	InGaN	47	3.2	Common Anode	Black	INND-SS40GAB
					Common Cathode	Black	INND-SS40GCB
					Common Anode	Grey	INND-SS40GAG
					Common Cathode	Grey	INND-SS40GCG
INND-SS40BXX	Blue	InGaN	7	3.2	Common Anode	Black	INND-SS40BAB
					Common Cathode	Black	INND-SS40BCB
					Common Anode	Grey	INND-SS40BAG
					Common Cathode	Grey	INND-SS40BCG
INND-SS40WXX	White	InGaN	30	3.2	Common Anode	Black	INND-SS40WAB
					Common Cathode	Black	INND-SS40WCB
					Common Anode	Grey	INND-SS40WAG
					Common Cathode	Grey	INND-SS40WCG

Label Specifications

		Date: yyyy/mm/dd
CUSTOMER P/N: 		
INOLUX P/N: 	QTY: PCS 	
LOT NO: 		QC
IV BIN:	COLOR BIN:	VF:

Inolux P/N:

I	N	N	D	-	S	S	4	0	X	X	X	-	X	X	X	X
Inolux	Display Type				Display Type		Dimension		Color	Polarity	Face Color		Customized Stamp-off			
	ND = Numeric Display				S: SMD Type S: Single		40 = 0.40" Display Height		YG: 570 nm Y: 590 nm A: 605 nm R: 630 nm DR: 660 nm G: 525 nm B: 465 nm W: X: 0.27 Y: 0.25	A = Common Anode C=Common Cathode	B = Black G = Grey					

Lot No.:

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

Reflow Soldering



Soldering Iron

Basic Spec is ≤ 4 sec. when 260°C (+10°C $\rightarrow$ -1 second). Power dissipation of Iron should be less than 15W. Surface temperature should be under 230°C

Rework

Rework should be completed within 4 second under 245°C

Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial Release		1.0	07-12-2017

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JONHON

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А