NINGBO FORYARD OPTO
ELECTRONICS CO.,LTD.

LED DIGIT DISPLAY

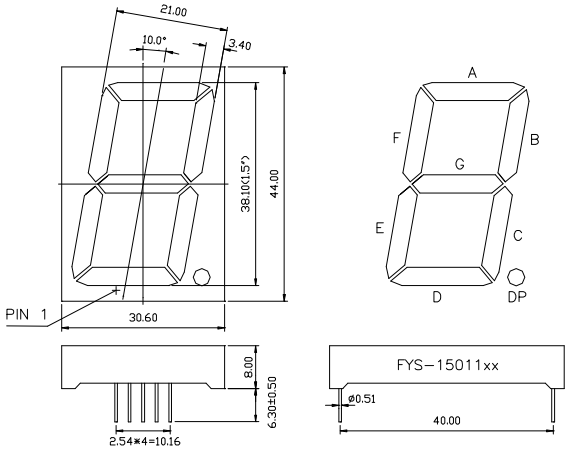
PartNO.: FYS-15011CX/DX-XX

DESCRIPTION

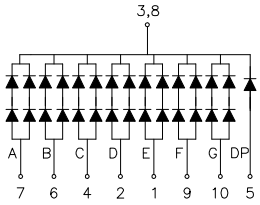
- **38.10mm (1.5")Single digit numeric display series.**
- **Standard brightness.**
- **Low current operation.**
- **Excellent character apperance.**
- **Easy mounting on P.C.boards or sockets**

Package Dimensions &Internal Circuit Diagram

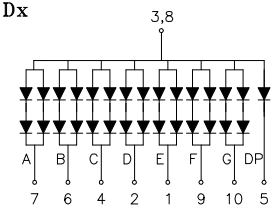
FYS-15011 Series



FYS-15011Cx



FYS-15011Dx



Notes:

- All dimensions are in millimeters (inches)
- Tolerance is ±0.25(0.01")unless otherwise noted.
- Specificaions are subject to change whitout notice.

ADD: NO.115 QiXin Road NingBo Zhejiang China ZIP.: 315051
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Http://www.foryard.com E-mail:sales@foryard.com

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: Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Test Condition	Value		Unit
			Min	Max	
Reverse Voltage	VR	IR=30μA	5	-----	V
Forward Current	IF	-----	------	30	mA
Power Dissipation	Pd	-----	------	100	mW
Pulse Current	Ipeak	Duty=0.1mS, 1KHz	------	150	mA
Operating Temperature	Topr	-----	-40	+85	° C
Storage Temperature	Tstr	-----	-40	+85	° C

• -XX: Surface / Lens color：

Number	0	1	2	3	4	5
Ref Surface Color	White	Black	Gray	Red	Green	
Epoxy Color	Water clear	White diffused	Red Diffused	Green Diffused	Yellow Diffused	

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■ **Description:**

• Color Code & Chip characteristics: (**Test Condition: IF=20mA**)

Emitting Color		Dice Material	Peak Wave Length(λ_P)	Spectral Line halfwidth($\triangle\lambda 1/2$)	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd
					Typ	Max	
H	Red	GaP	700nm	90nm	2.20	2.50	5.0
S, SR	Hi Red	AlGaAs,SH	660nm	20nm	1.80	2.20	15-20
D	Super Red	AlGaAs,DH	660nm	20nm	1.80	2.20	20-30
LR	Ultra Red	AlGaAs,DDH	660nm	20nm	1.90	2.40	26-38
HR	HE Red	GaAsP	640nm	45nm	1.90	2.40	50-80
E	Orange	GaAsP	630nm	35nm	2.10	2.50	10-20
A	Amber	GaAsP	610nm	35nm	2.10	2.50	15-20
Y	Yellow	GaAsP	590nm	35nm	2.10	2.50	15-20
G	Green	GaP	570nm	30nm	2.20	2.50	14-18
Ultra brightness							
UHR	Ultra Hi Red	AlGaInP	645nm	20nm	2.10	2.50	80-150
UE	Ultra Orange	AlGaInP	630nm	20nm	2.10	2.50	180-210
UA	Ultra Amber	AlGaInP	610nm	20nm	2.10	2.50	90-120
UY	Ultra Yellow	AlGaInP	590nm	20nm	2.10	2.50	150-200
UG	Ultra Green	AlGaInP	570nm	30nm	2.20	2.50	60-100
PG	Ultra Pure Green	InGaN	520nm	36nm	2.80	3.80	260-310
BG	Ultra Blue Green	InGaN	505nm	36nm	2.80	3.80	260-310
B	Blue	InGaN	430nm	30nm	2.80	3.80	10-20
UB	Ultra Blue	InGaN	470nm	30nm	2.80	3.80	80-90
			460nm	30nm	2.80	3.80	80-90
V	UV	InGaN	405nm		2.80	3.80	5-8
W	White	InGaN	X=0.29,y=0.30		2.80	3.80	180-200
UW	Ultra White	InGaN	X=0.29,y=0.30		2.80	3.80	180-200
Segment-to-Segment Luminous Intensity ratio(Iv-M)					1.5:1		

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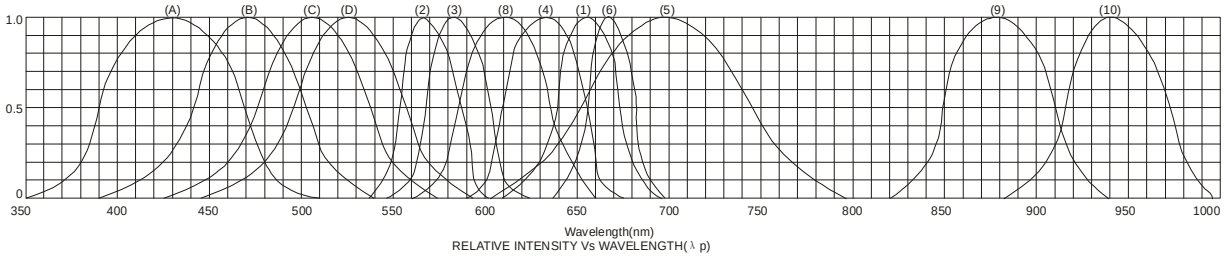
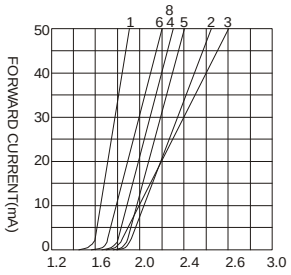
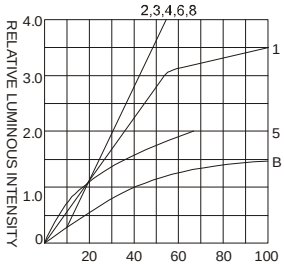


RELATIVE INTENSITY Vs WAVELENGTH(λ p)

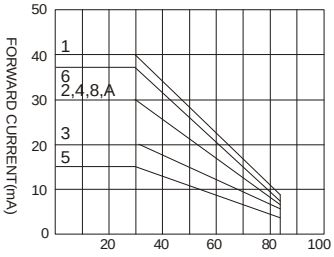
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue
(B) - InGaN/SiC 470nm/Blue
(C) - InGaN/SiC 505nm/Ultra Green
(D) - InGaAl/SiC 525nm/Ultra Green



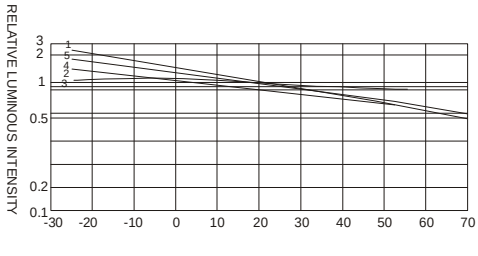
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



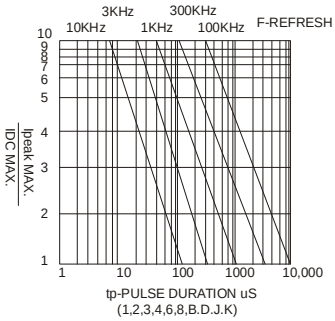
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



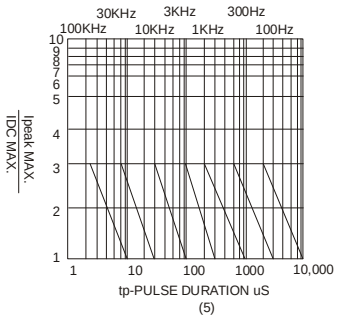
AMBIENT TEMPERATURE Ta(℃)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(℃)



tp-PULSE DURATION uS
(1,2,3,4,6,8,B.D.J.K)



tp-PULSE DURATION uS
(5)

NOTE:25℃ free air temperature unless otherwise specified

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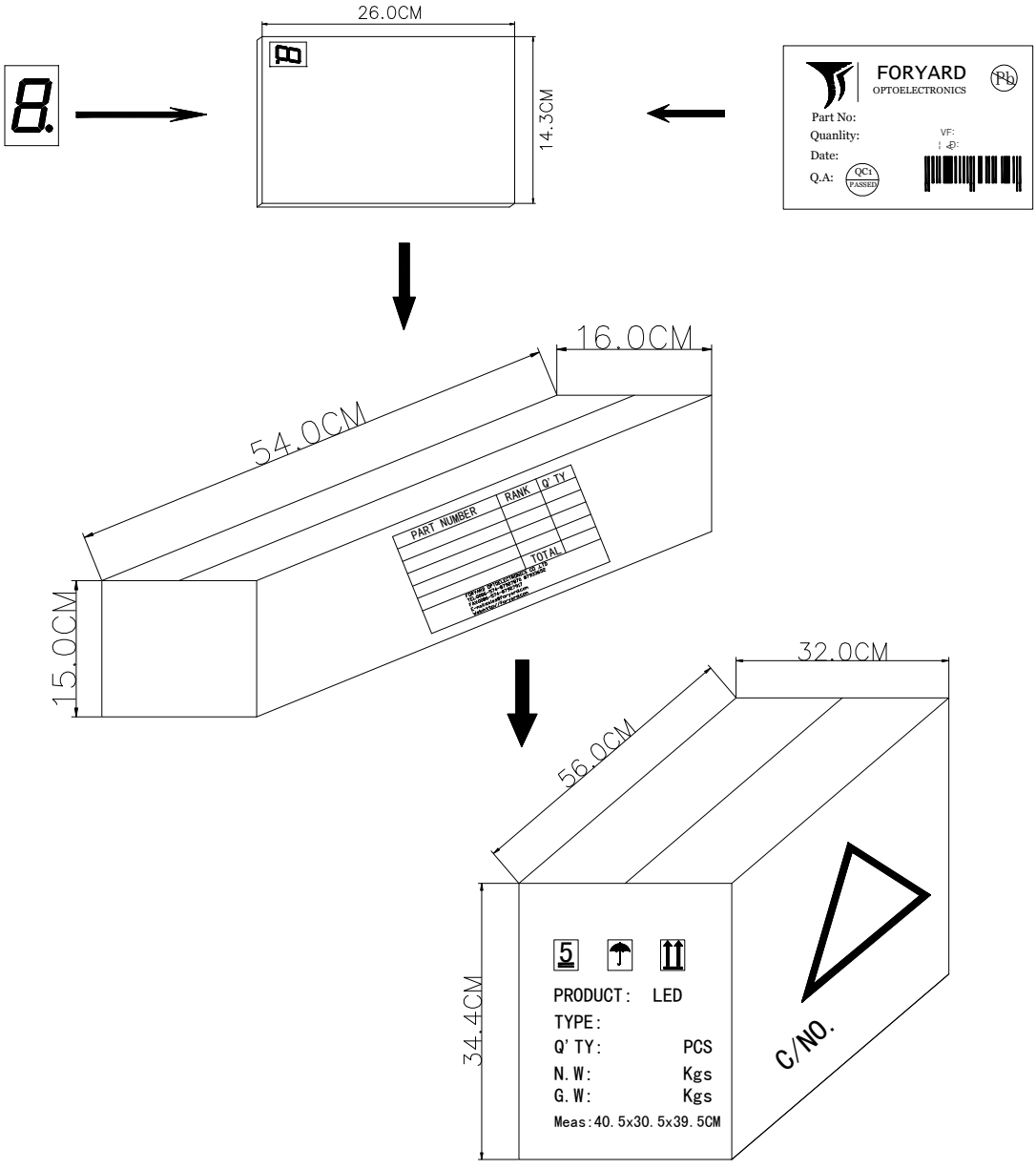

type	QTY/foam(pcs)	QTY /Bundle (pcs)	QTY /CARTONDimension
FYS-15011C/Dx-xx	4*5=20	20*16=320	320*4=1280

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