NINGBO FORYARD OPTO
ELECTRONICS CO.,LTD.

LED DIGIT DISPLAY

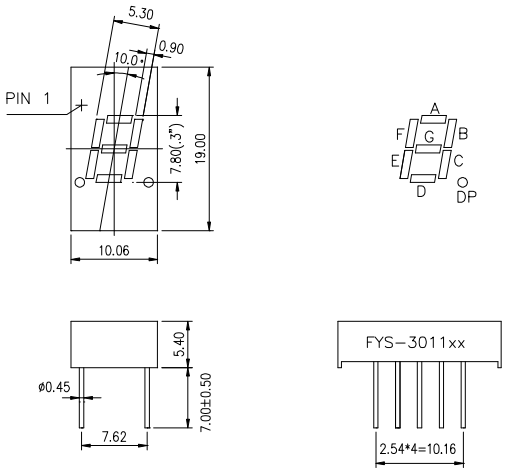
PartNO.: FYS-3011AX/BX-XX

DESCRIPTION

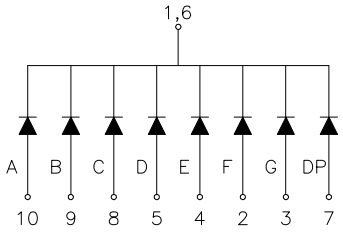
- **7.8mm (0.3") Single digit numeric display series.**
- **Standard brightness.**
- **Low current operation.**
- **Excellent character apperance.**
- **Easy mounting on P.C.boards or sockets**

Package Dimensions &Internal Circuit Diagram

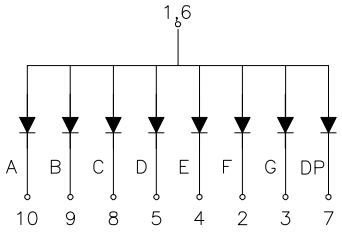
FYS-3011 Series



FYS-3011Ax



FYS-3011Bx



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
TEL: 0086-574-87927870 87933652 FAX:0086-574-87927917
Http://www.foryard.com E-mail:sales@foryard.com

LED DIGIT DISPLAY

PartNO.: FYS-3011AX/BX-XX

: 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

■ **Description:**

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

Emitting Color		Dice Material	Peak Wave Length (λ_P)	Spectral Line halfwidth(△λ1/2)	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:ucd
					Typ	Max	
H	Red	GaP/GaP	700nm	90nm	2.25	2.50	500
S	Hi Red	GaAlAs/GaAs,SH	660nm	20nm	1.85	2.20	3500
D	Super Red	GaAlAs/GaAs,DH	660nm	20nm	1.85	2.20	6000
UR	Ultra Red	GaAlAs/GaAs,DDH	660nm	20nm	1.85	2.20	12000
E	Orange	GaAsP/GaP	635nm	35nm	2.10	2.50	2500
Y	Yellow	GaAsP/GaP	585nm	35nm	2.10	2.50	2000
G	Green	GaP/GaP	570nm	30nm	2.20	2.50	2500

• -XX: Surface / Lens color：

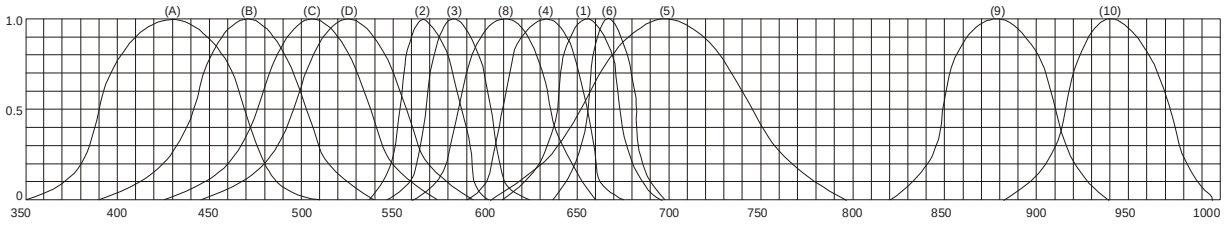
Number	0	1	2	3	4	5
Ref Surface Color	White	Black	Gray	Red	Green	
Epoxy Color	Water clear	White diffused	Red Diffused	Green Diffused	Yellow Diffused	

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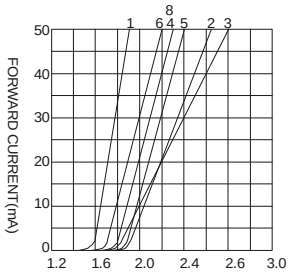
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PartNO.: FYS-3011AX/BX-XX

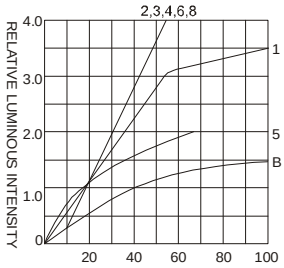


RELATIVE INTENSITY Vs WAVELENGTH(λ p)

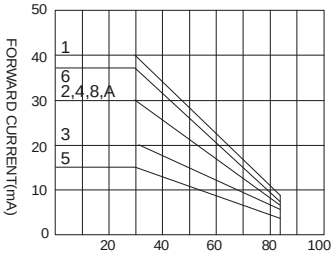
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



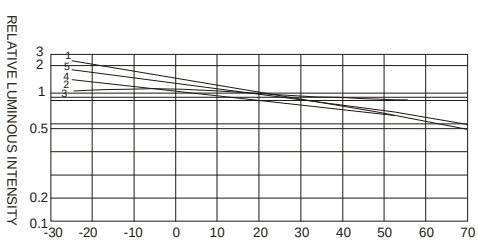
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



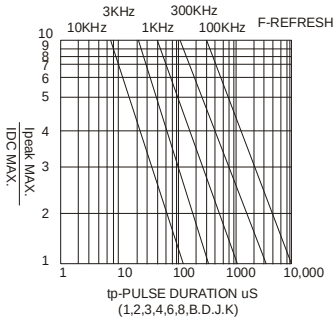
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



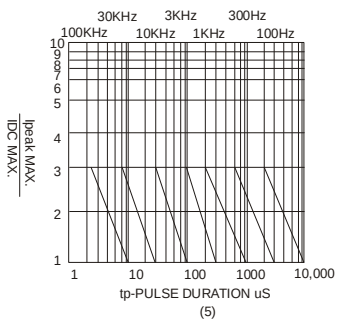
AMBIENT TEMPERATURE Ta(℃)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(℃)



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



tp-PULSE DURATION uS
(5)

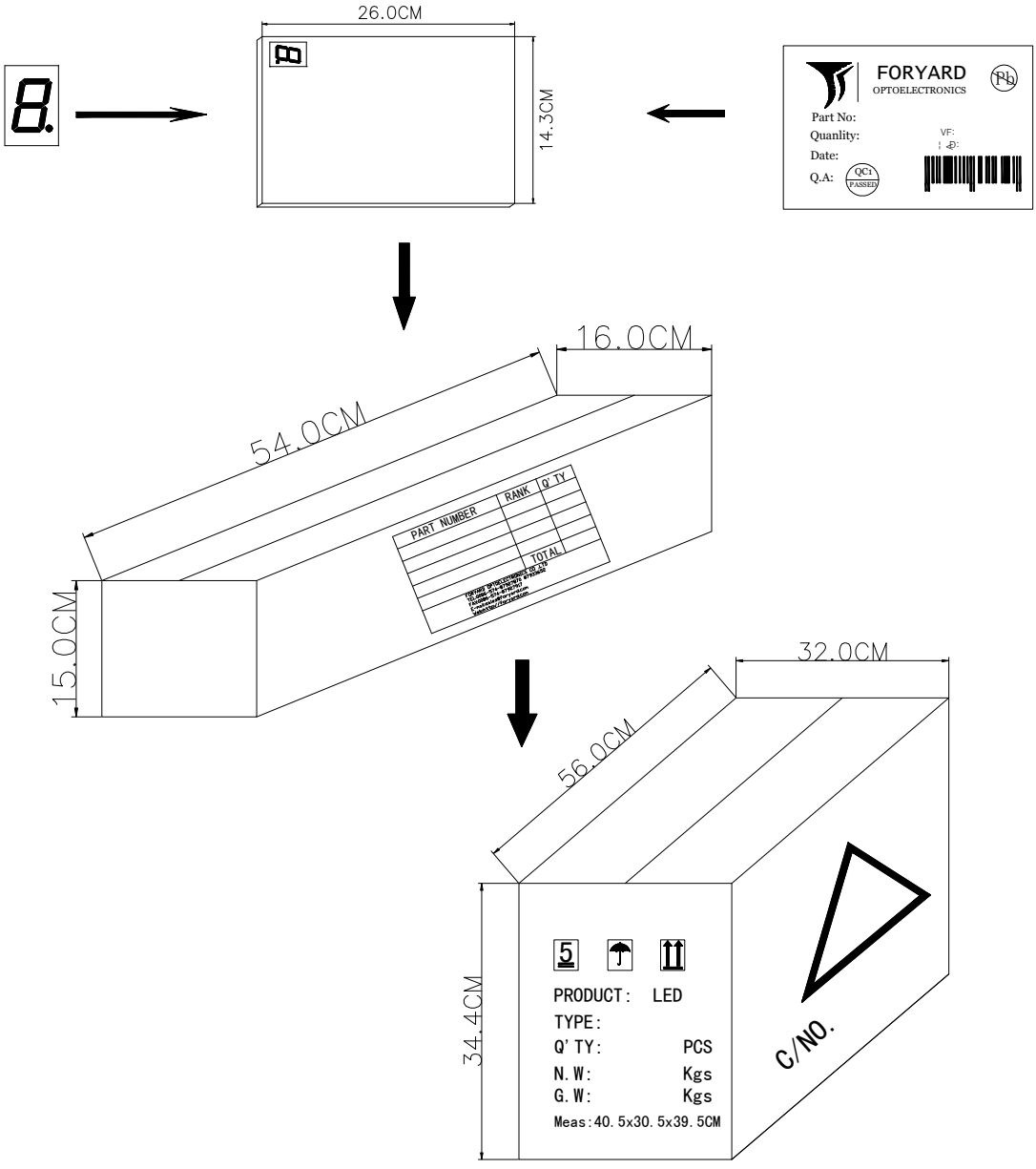
NOTE:25℃ free air temperature unless otherwise specified

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tapy	QTY/foam(pcs)	QTY /Bundle (pcs)	QTY /CARTONDimension
FYS-3011XX-XX	18*19=342	342*20=6840	6840*4=27360

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