■ Features:

- 3.2mmx1.6mm SMD, 1.1mm THICKNESS.
- STANDARD BRIGHTNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE： REEL.

■ Part No.:

FYLS-1206Hx
FYLS-1206SRx
FYLS-1206LRx
FYLS-1206URx
FYLS-1206Ex
FYLS-1206Ax
FYLS-1206Yx
FYLS-1206Gx

Note:X = Len Color: C=Water Clear, D=Color Diffused, T=Color Trans

■ 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:ucd
					Typ	Max	
H	Red	GaP/GaP	700nm	90nm	2.25	2.60	500
S	Hi Red	GaAlAs/GaAs,SH	660nm	20nm	1.85	2.20	3500
LR	Super Red	AlGaAs,DH	660nm	20nm	1.85	2.20	6000
UR	Ultra Red	GaAlAs/GaAs,DDH	660nm	20nm	1.85	2.20	7000
E	Orange	GaAsP/GaP	635nm	35nm	2.10	2.50	2500
A	Amber	GaAsP	610nm	35nm	2.10	2.50	2000
Y	Yellow	GaAsP/GaP	585nm	35nm	2.10	2.50	2000
G	Green	GaP/GaP	570nm	30nm	2.20	2.50	2500

Ningbo Foryard Optoelectronics Co.,Ltd
No.115 Qixin Road Jiangdong District Ningbo 315051,Ningbo,Zhejiang, China
Tel:+86-574-87927870 fax:+86-574-87927917 Website:www.foryard.com

■ **Electrical-optical characteristics: (Ta=25℃)**

Parameter	Symbol	AlGaAs	GaAsP	AlGaInP	InGaN	Unit
Power Dissipation	P_{ad}	60	80	75	120	mW
Peak Forward Current *	I_{pf}	150	150	150	100	mA
Continuous Forward Current	I_{af}	25	30	30	30	mA

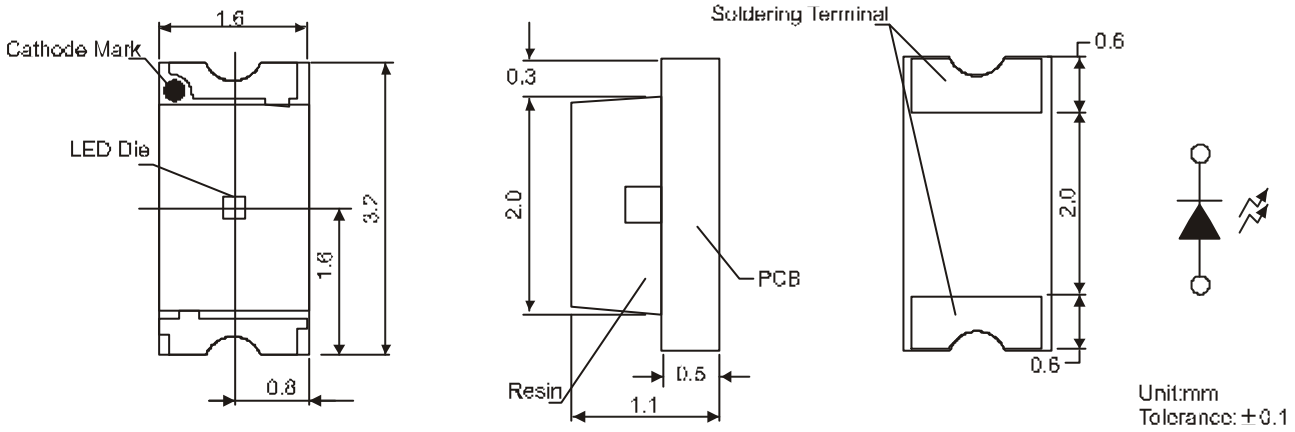
Notes:

・* Test Condition = Duty 0.1,10KHZ

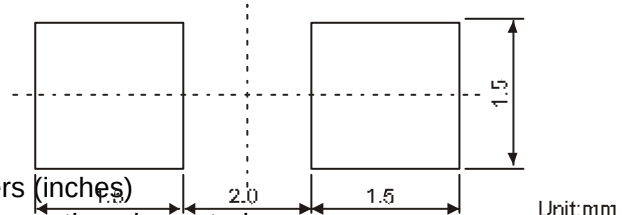
■ **Package configuration & Internal circuit diagram:**

FYLS-1206xx

Package Outline Drawing



Recommended Soldering Pad Dimensions



Notes:

・All dimensions are in millimeters (inches)

・Tolerance is ±0.25(0.01")unless otherwise noted.

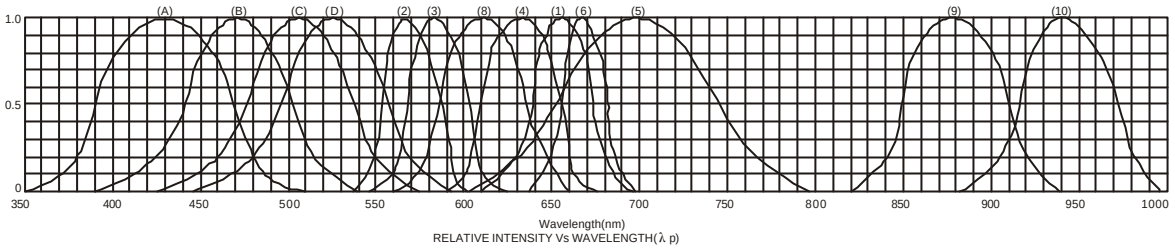
・Specificaions are subject to change whitout notice.

■ **Absolute maximum ratings (Ta=25℃)**

Reverse Voltage	5V
Reverse Current	20μA
Operating Temperature Range	-40℃to+85℃
Storage Temperature Range	-40℃to+85℃
Lead Solder Temperature (1.6mm(1/16")from body) 230℃ for 5 Seconds	

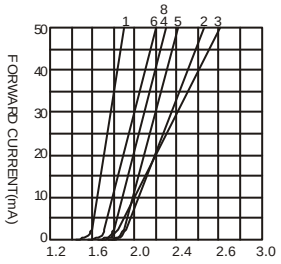
Ningbo Foryard Optoelectronics Co.,Ltd
No.115 Qixin Road Jiangdong District Ningbo 315051,Ningbo,Zhejiang, China
Tel:+86-574-87927870 fax:+86-574-87927917 Website:www.foryard.com

■ Typical electrical-optical characteristics curves:

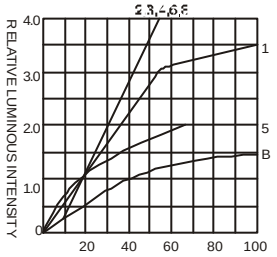


RELATIVE INTENSITY Vs WAVELENGTH(λ p)

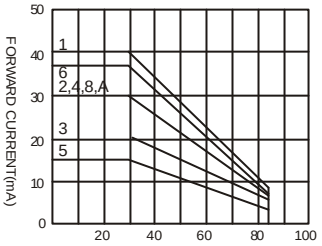
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



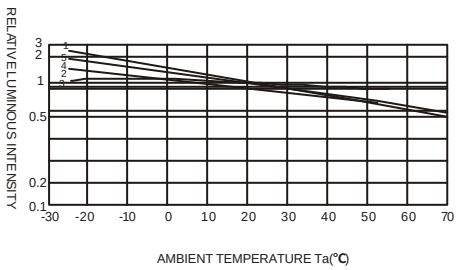
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



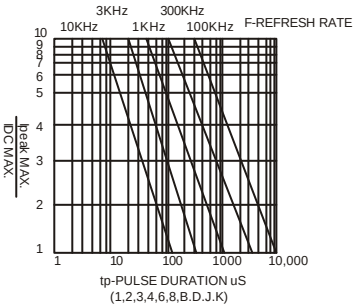
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



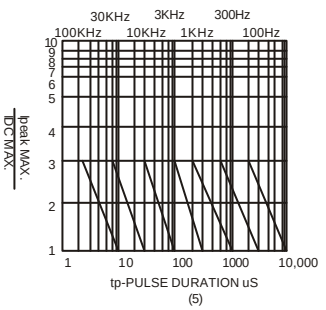
AMBIENT TEMPERATURE Ta(℃)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(℃)



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



tp-PULSE DURATION uS
(5)

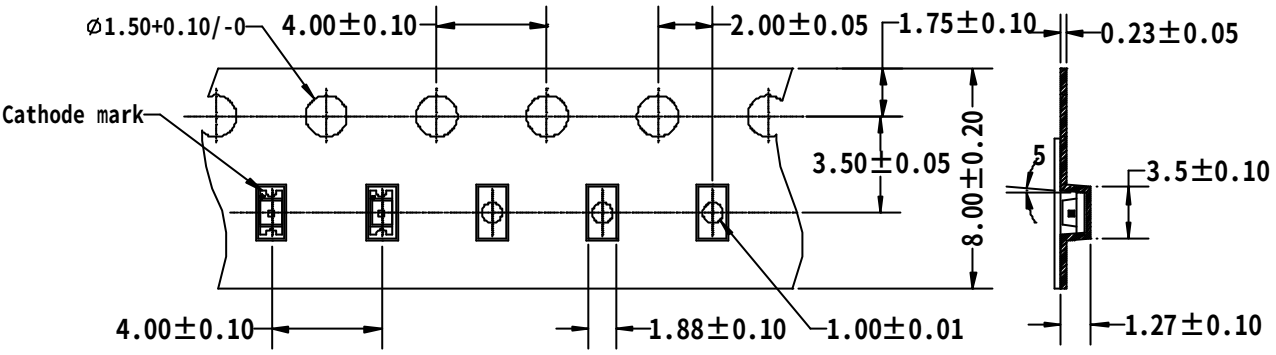
NOTE:25℃ free air temperature unless otherwise specified

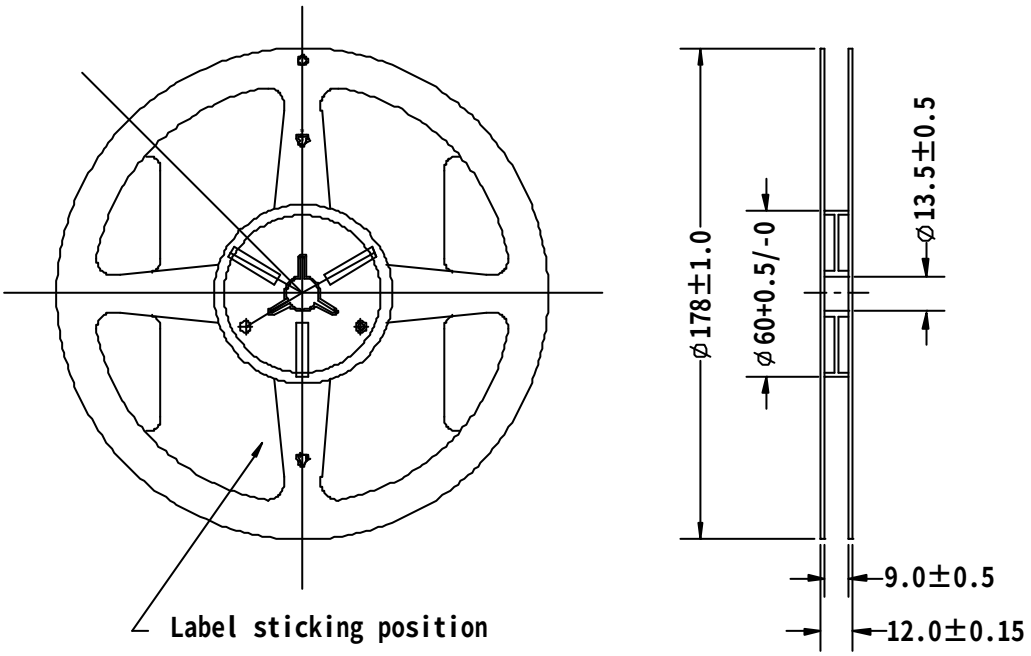
Ningbo Foryard Optoelectronics Co.,Ltd
No.115 Qixin Road Jiangdong District Ningbo 315051,Ningbo,Zhejiang, China
Tel:+86-574-87927870 fax:+86-574-87927917 Website:www.foryard.com

Tape Specifications

Unit：mm

Tolerance：±0.1





Ningbo Foryard Optoelectronics Co.,Ltd
No.115 Qixin Road Jiangdong District Ningbo 315051,Ningbo,Zhejiang, China
Tel:+86-574-87927870 fax:+86-574-87927917 Website:www.foryard.com