

■ 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 (1P)	Spectral Line halfwidth(11/2)	Forward Voltage(VF) Unit:V		Luminous Intensity (lv) 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

■ 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

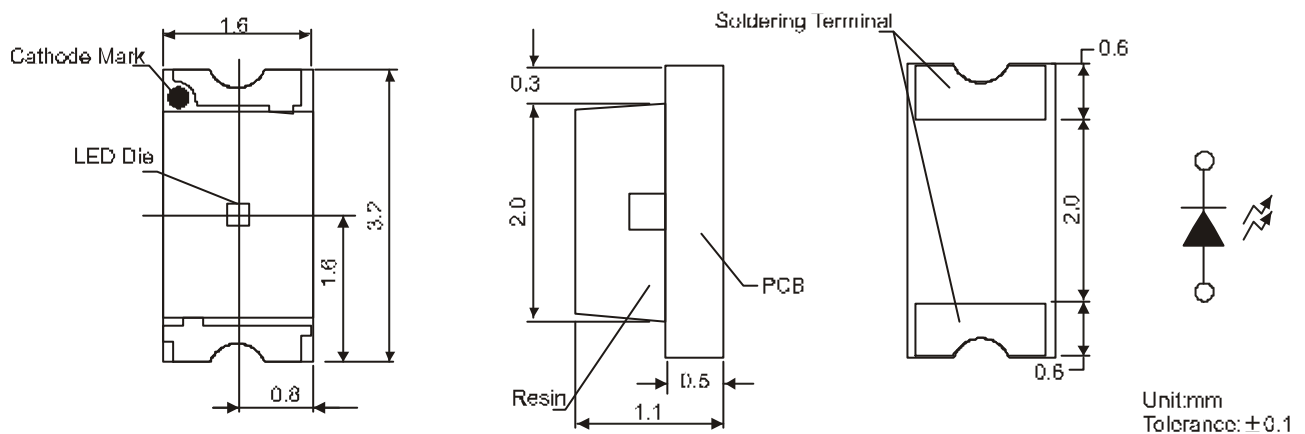
Notes:

- * Test Condition = Duty 0.1,10KHZ

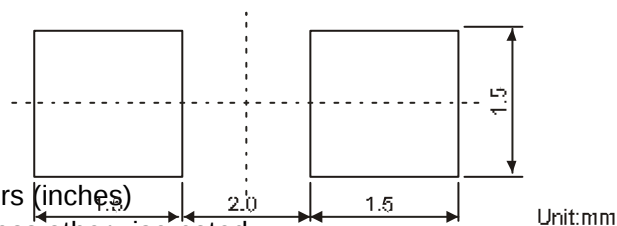
■ Package configuration & Internal circuit diagram:

FYLS-1206xx

Package Outline Drawing



Recommended Soldering Pad Dimensions



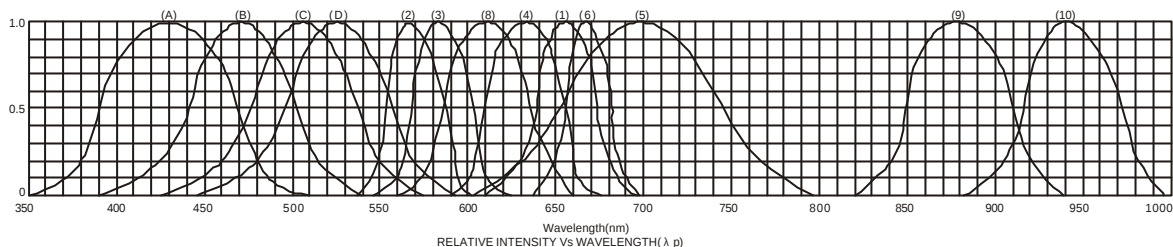
Notes:

- All dimensions are in millimeters (inches)
- Tolerance is ±0.25(0.01") unless otherwise noted.
- Specifications are subject to change without notice.

■ Absolute maximum ratings (Ta=25)

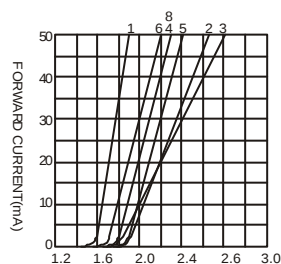
Reverse Voltage	5V
Reverse Current	20μA
Operating Temperature Range	-40 to +85
Storage Temperature Range	-40 to +85
Lead Solder Temperature (1.6mm(1/16") from body) 230 for 5 Seconds	

■ Typical electrical-optical characteristics curves:

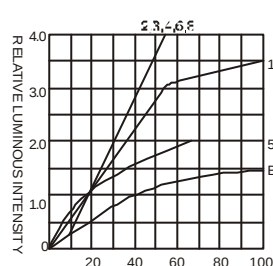


- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red

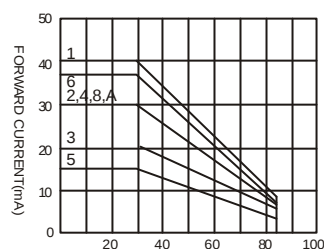
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) - GaN/SiC 430nm/Blue
- (B) - InGaN/SiC 470nm/Blue
- (C) - InGaN/SiC 505nm/Ultra Green
- (D) - InGaAl/SiC 525nm/Ultra Green



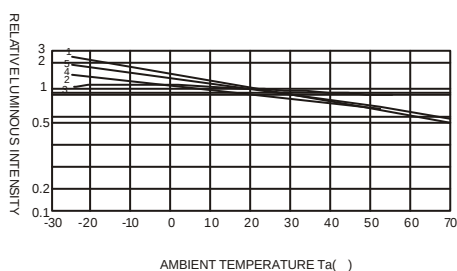
FORWARD VOLTAGE (V)
FORWARD CURRENT VS.
FORWARD VOLTAGE



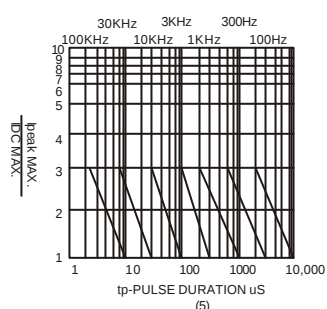
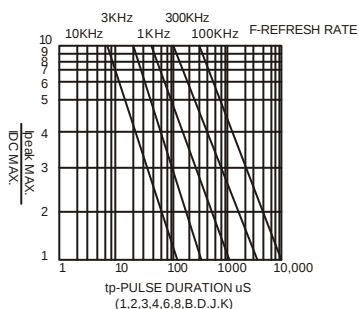
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



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



AMBIENT TEMPERATURE Ta(°)



NOTE: 25 °C free air temperature unless otherwise specified

Tape Specifications

Unit : mm

Tolerance : ± 0.1

