

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 (nm)	Spectral Line halfwidth (nm)	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,DD H	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

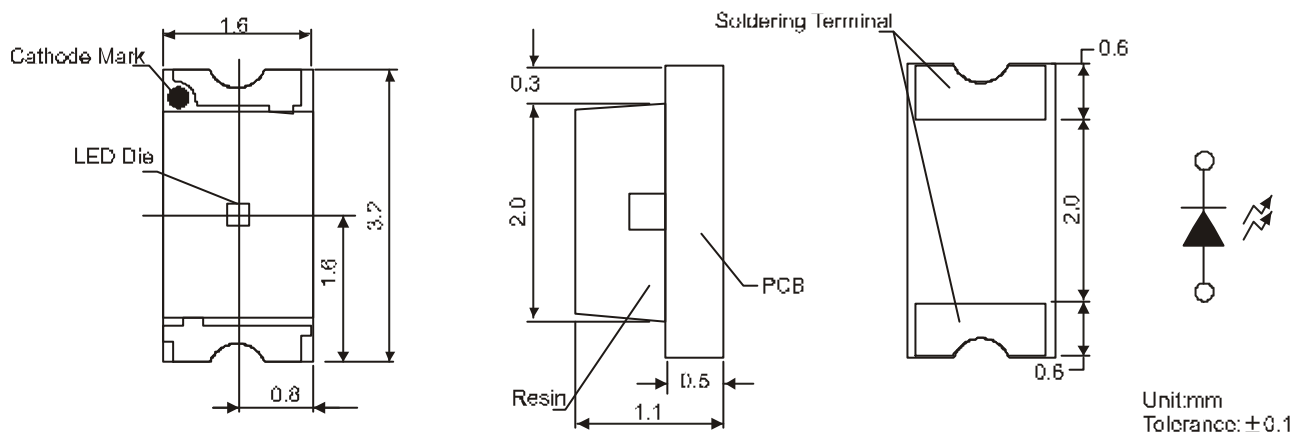
Notes:

- * Test Condition = Duty 0.1,10KHZ

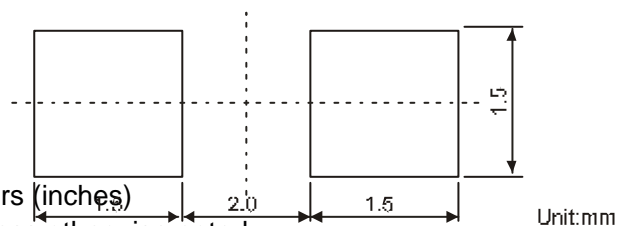
Package configuration & Internal circuit diagram:

FYLS-1206xx

Package Outline Drawing



Recommended Soldering Pad Dimensions



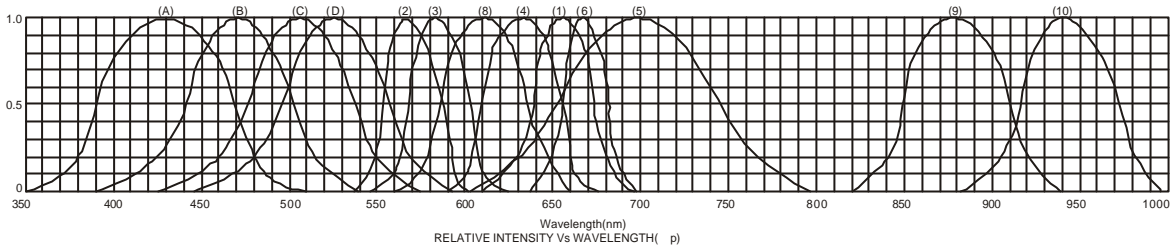
Notes:

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

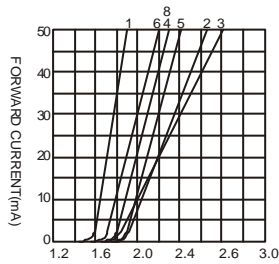
Absolute maximum ratings (Ta=25)

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

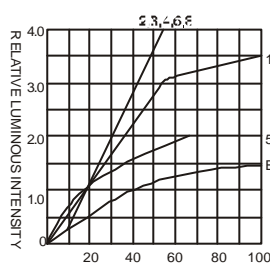
Typical electrical-optical characteristics curves:



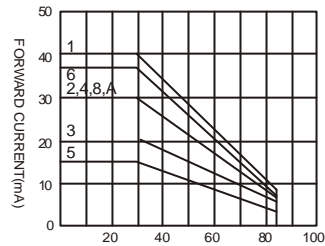
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



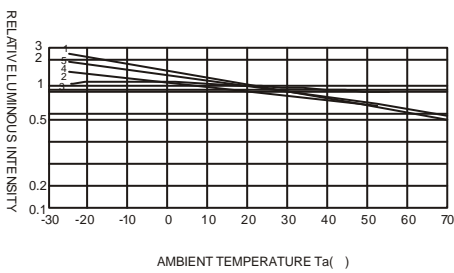
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



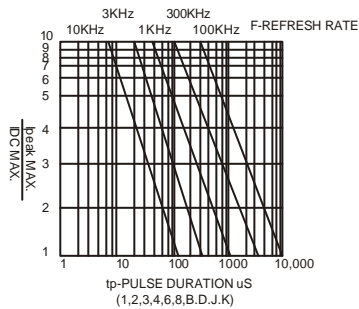
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



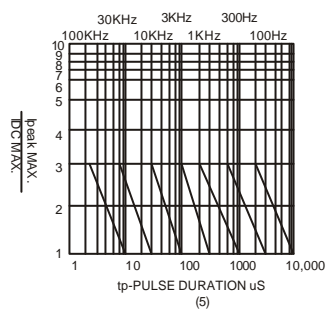
AMBIENT TEMPERATURE Ta ()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta ()



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



(5)

NOTE:25 free air temperature unless otherwise specified

Tape Specifications

Unit : mm

Tolerance : ± 0.1

