

**■ Features:**

- 2.0mmx1.25mm SMD, 0.8mm THICKNESS.
- ULTRA BRIGHTNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE : REEL.

**■ Part No. :**

Part No	I <sub>v</sub> TYP. (mcd)	Viewing Angle 2θ1/2(deg)
FYLS-0805UHRx	80	120°
FYLS-0805UEx	70	120°
FYLS-0805UAX	70	120°
FYLS-0805UYx	85	120°
FYLS-0805UGx	45	120°
FYLS-0805Bx	18	120°
FYLS-0805UBx	30	120°
FYLS-0805Wx	210	120°

**■ Description:**

· Color Code &amp; Chip characteristics: (Test Condition: IF=20mA)

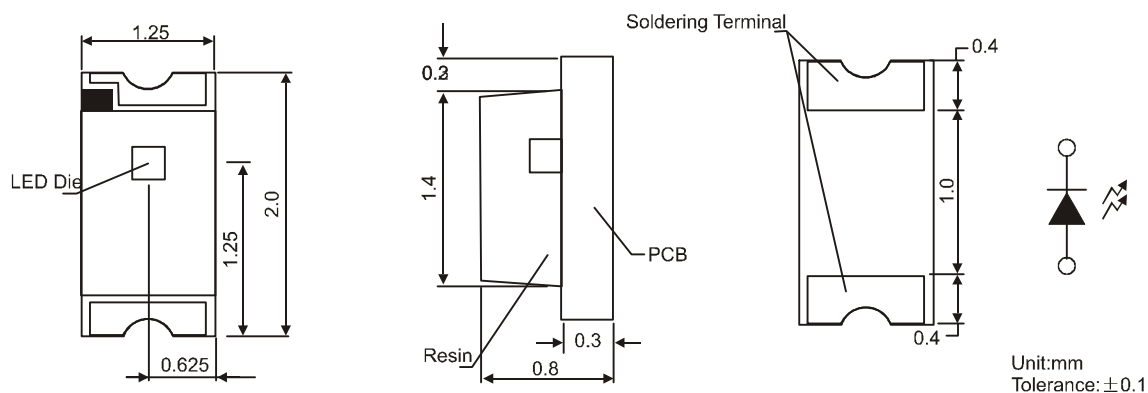
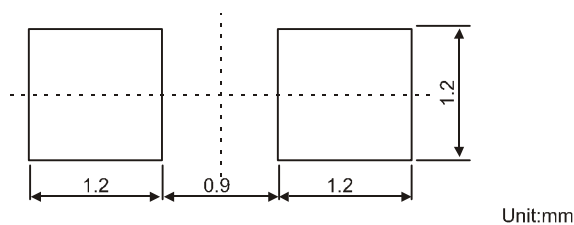
Emitting Color		Di ce Material	Peak Wave Length( $\lambda_p$ ) (nm)	Spectral Line halfwidth ( $\Delta\lambda_{1/2}$ )	Forward Voltage(VF)		Lumi nous Intensity (I <sub>v</sub> ) Unit: ucd
					Typ	Max	
UHR	Ultra Hi Red	AlGaInP	645nm	20nm	2.10	2.50	7000
UE	Ultra Orange	AlGaInP	630nm	20nm	2.10	2.50	7000
UA	Ultra Amber	AlGaInP	610nm	20nm	2.10	2.50	7000
UY	Ultra Yellow	AlGaInP	590nm	20nm	2.10	2.50	7000
UG	Ultra Green	AlGaInP	574nm	30nm	2.20	2.50	5000
B	Blue	InGaN	430nm	30nm	3.80	4.50	5000
UB	Ultra Blue	InGaN	470nm	30nm	3.50	4.20	7000
W	White	InGaN	-	-	3.80	4.50	5000

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

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

**Notes:**

· \* Test Condition = Duty 0.1, 10KHZ

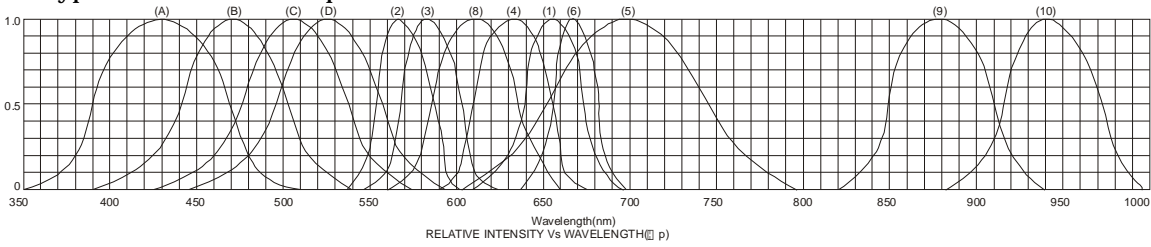
**■ Package configuration & Internal circuit diagram:**
**FYLS-0805xx**
**Package Outline Drawing**

**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.

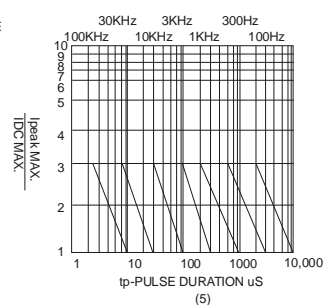
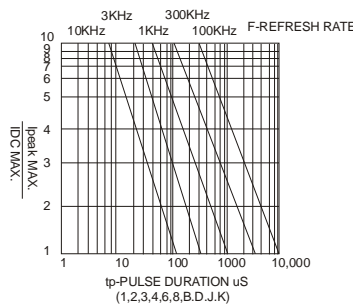
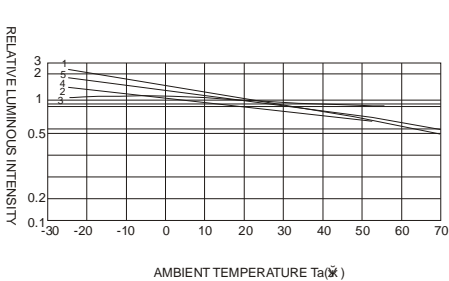
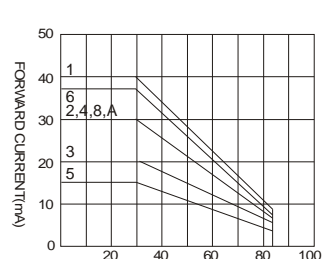
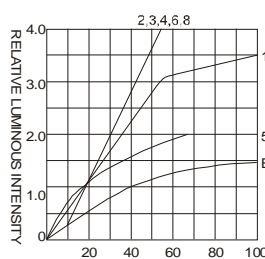
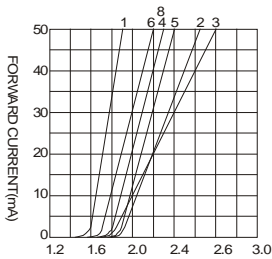
### ■ Absolute maximum ratings (Ta=25°C)

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

### ■ Typical electrical-optical characteristics curves:



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



NOTE:25°C free air temperature unless otherwise specified

Tape Specifications

Unit : mm

Tolerance :  $\pm 0.1$

