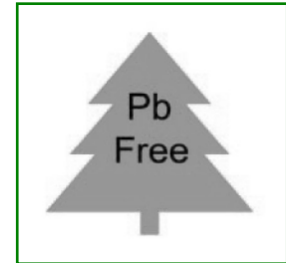


**Features:**

- | 2.0mmx1.25mm SMD, 0.8mm THICKNESS.
- | Mono-color type, Standard type
- | Compatible with automatic placement equipment
- | WIDE VIEWING ANGLE.
- | IDEAL FOR BACKLIGHT AND INDICATOR.
- | PACKAGE: 4KPCS/REEL.
- | ROHS Compliance.


**Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)**

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2θ/2 (deg)
	Emitted Color	Material	λp (nm)		Typ	Max	Min.	Typ.	
					FYLS-0805HC	Red	GaP	700	2.2
FYLS-0805SRC	Super Red	AlGaAs	660	1.85	2.30	5	13		
FYLS-0805LRC	Super Red	AlGaAs	660	1.85	2.30	10	28		
FYLS-0805URC	Ultra Red	AlGaAs	660	1.95	2.50	20	45		
FYLS-0805EC	Orange	GaAsP	640	2.10	2.70	1	6		
FYLS-0805YC	Yellow	GaAsP	583	2.15	2.70	1	6		
FYLS-0805GC	Green	GaP	568	2.30	2.70	6	15		
FYLS-0805SRD	Super Red	AlGaAs	660	1.85	2.30	5	10	150	
FYLS-0805LRD	Super Red	AlGaAs	660	1.85	2.30	10	20		
FYLS-0805ED	Orange	GaAsP	640	2.10	2.70	1	3		
FYLS-0805YD	Yellow	GaAsP	583	2.15	2.70	1	3		
FYLS-0805GD	Green	GaP	568	2.30	2.70	6	12		

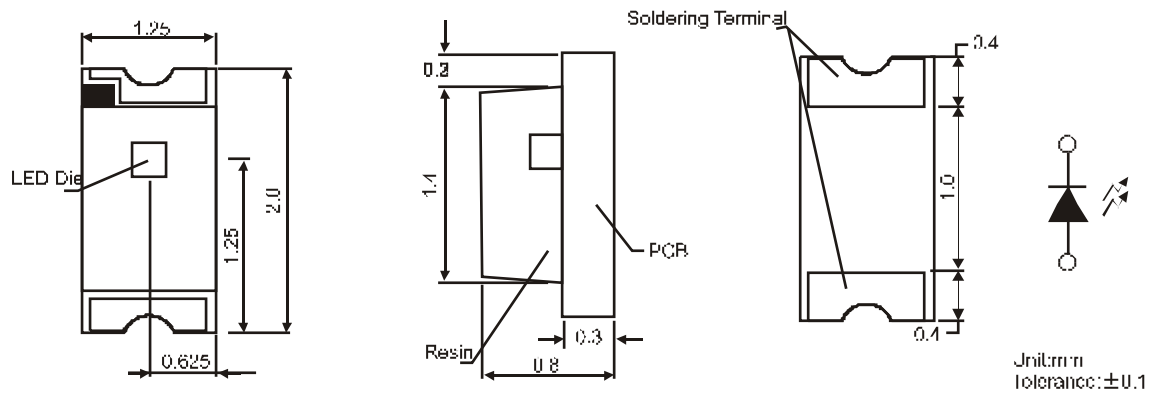
**Absolute maximum ratings (Ta=25°C)**

Parameter	H	SR	LR	UR	E	Y	G	Unit
Forward Current I <sub>F</sub>	30	30	30	30	30	30	30	mA
Power Dissipation P <sub>d</sub>	65	78	78	78	65	65	65	mW
Reverse Voltage V <sub>R</sub>	5	5	5	5	5	5	5	V
Peak Forward Current I <sub>PF</sub> (Duty 1/10 @1KHZ)	100	100	100	100	100	100	100	mA
Operation Temperature T <sub>OPR</sub>	-30 to +80							
Storage Temperature T <sub>STG</sub>	-40 to +85							
Lead Soldering Temperature T <sub>SOL</sub>	Max.260 5 for 3 sec Max. (1.6mm from the base of the epoxy bulb)							

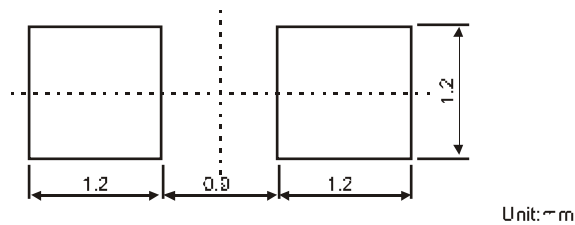
**Package configuration & Internal circuit diagram:**

FYLS-0805xx

**Package Outline Drawing**



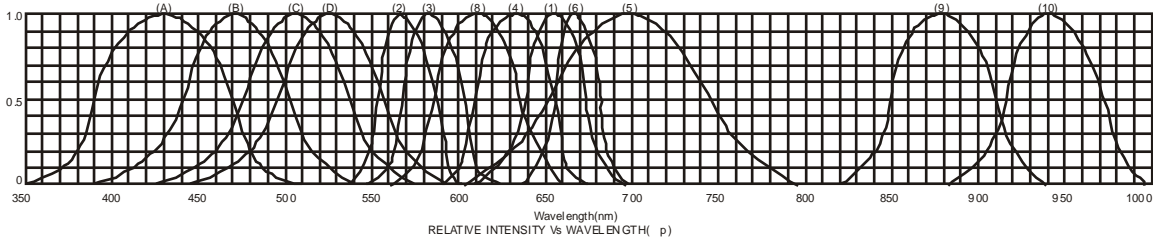
**Recommended Soldering Pad Dimensions**



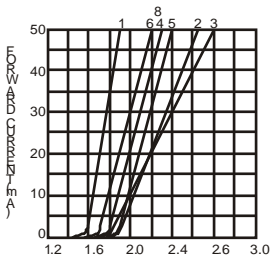
**Notes:**

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

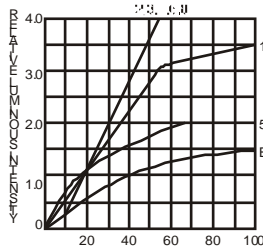
### Typical electrical-optical characteristics curves:



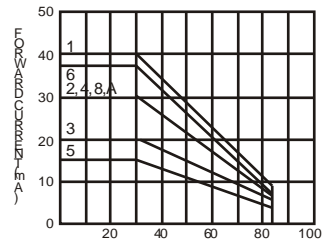
- |   |                                      |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red                | (9) - GaAlAs 880nm                   |
| (2) - GaP 570nm/Yellow Green              | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow              | (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) - InGaN/SiC 525nm/Ultra Green    |
| (8) - GaAsP/GaP 610nm/Super Red           |                                      |



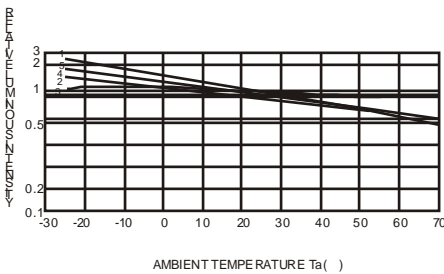
FORWARD VOLTAGE (Vf)  
FORWARD CURRENT VS.  
FORWARD VOLTAGE



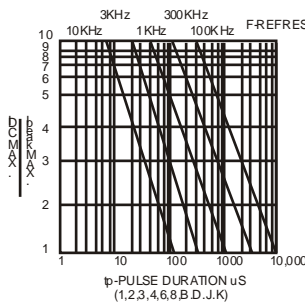
FORWARD CURRENT (mA)  
RELATIVE LUMINOUS  
INTENSITY VS. FORWARD  
CURRENT



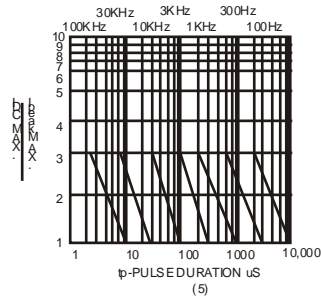
AMBIENT TEMPERATURE Ta ( ° )  
FORWARD CURRENT VS. AMBIENT  
TEMPERATURE



AMBIENT TEMPERATURE Ta ( ° )



tp-PULSE DURATION μS  
(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

