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 2¦È1/2 (deg)
	Emitted Color	Material	?P (nm)		Typ	Max	Min.	Typ.	
FYLS-0805HC	Red	GaP	700	Water Clear	2.2	2.7	0.3	0.9	130
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	Color Diffused	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	

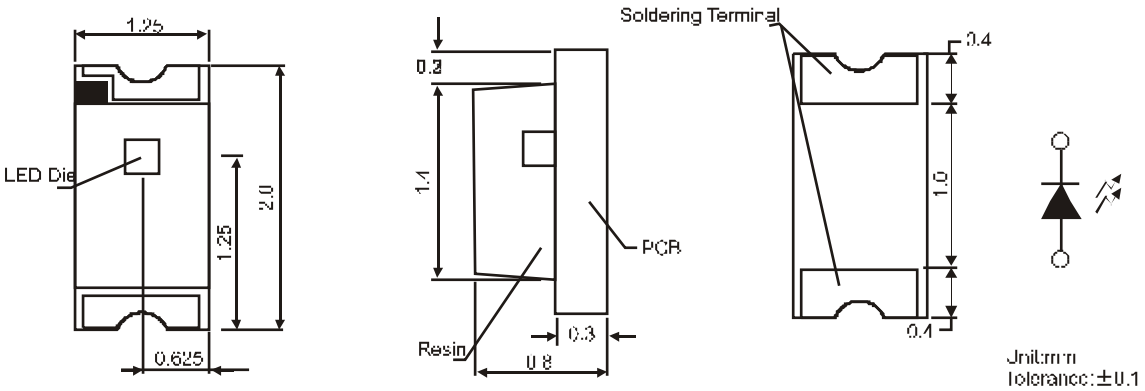
Absolute maximum ratings (Ta=25°C)

Parameter	H	SR	LR	UR	E	Y	G	Unit
Forward Current I_F	30	30	30	30	30	30	30	mA
Power Dissipation P_d	65	78	78	78	65	65	65	mW
Reverse Voltage V_R	5	5	5	5	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	100	100	100	100	100	100	100	mA
Operation Temperature T_{OPR}	-30 to +80							℃
Storage Temperature T_{STG}	-40 to +85							℃
Lead Soldering Temperature T_{SOL}	Max.260 5℃ for 3 sec Max. (1.6mm from the base of the epoxy bulb)							℃

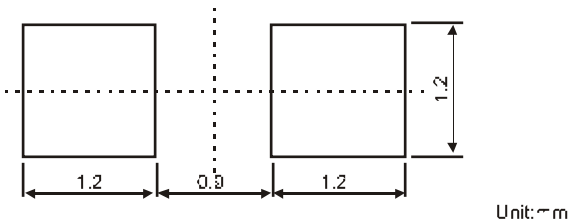
Package configuration & Internal circuit diagram:

FYLS-0805xx

Package Outline Drawing



Recommended Soldering Pad Dimensions



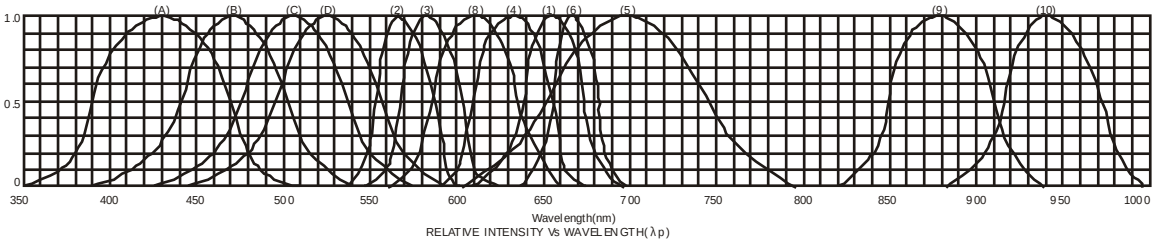
Notes:

All dimensions are in millimeters (inches)

Tolerance is 0.25(0.01")unless otherwise noted.

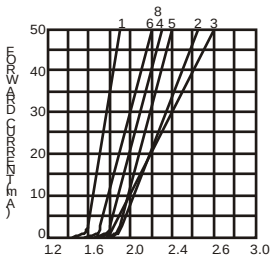
Specifications are subject to change without notice.

Typical electrical-optical characteristics curves:

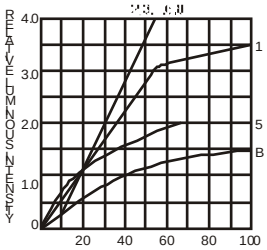


RELATIVE INTENSITY Vs WAVELENGTH(λp)

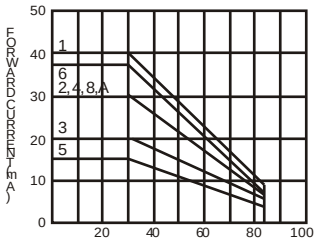
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



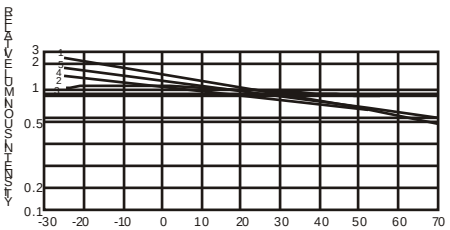
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



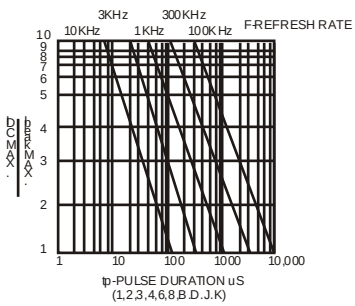
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



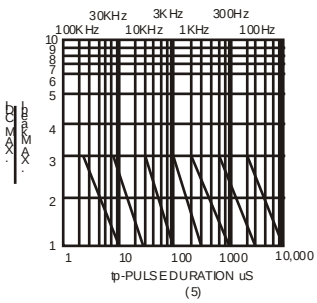
AMBIENT TEMPERATURE Ta(°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(°C)



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



tp-PULSE DURATION uS
(5)

NOTE:25°C free air temperature unless otherwise specified

Tape Specifications

Unit: mm

Tolerance: 0.1