■ Features:

· 7.62x7.62x4.0mm ϕ3.0 FLUX LED LAMP.
· ULTRA BRIGHTNESS.
· LOW POWER CONSUMPTION.
· WIDE VIEWING ANGLE.
· IDEAL FOR BACKLIGHT AND INDICATOR.

■ Part No.:

FYLF-1860URC
FYLF-1860UEC
FYLF-1860UYC
FYLF-1860UGC

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(λP)	Spectral Line halfwidth(△λ1/2)	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:ucd
					Typ	Max	
UR	Ultra Red	GaAlAs/GaAs,DDH	660nm	20nm	1.85	2.20	12000
UE	Ultra Orange	AlGaInP	630nm	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

■ Electrical-optical characteristics: (Ta=25℃)

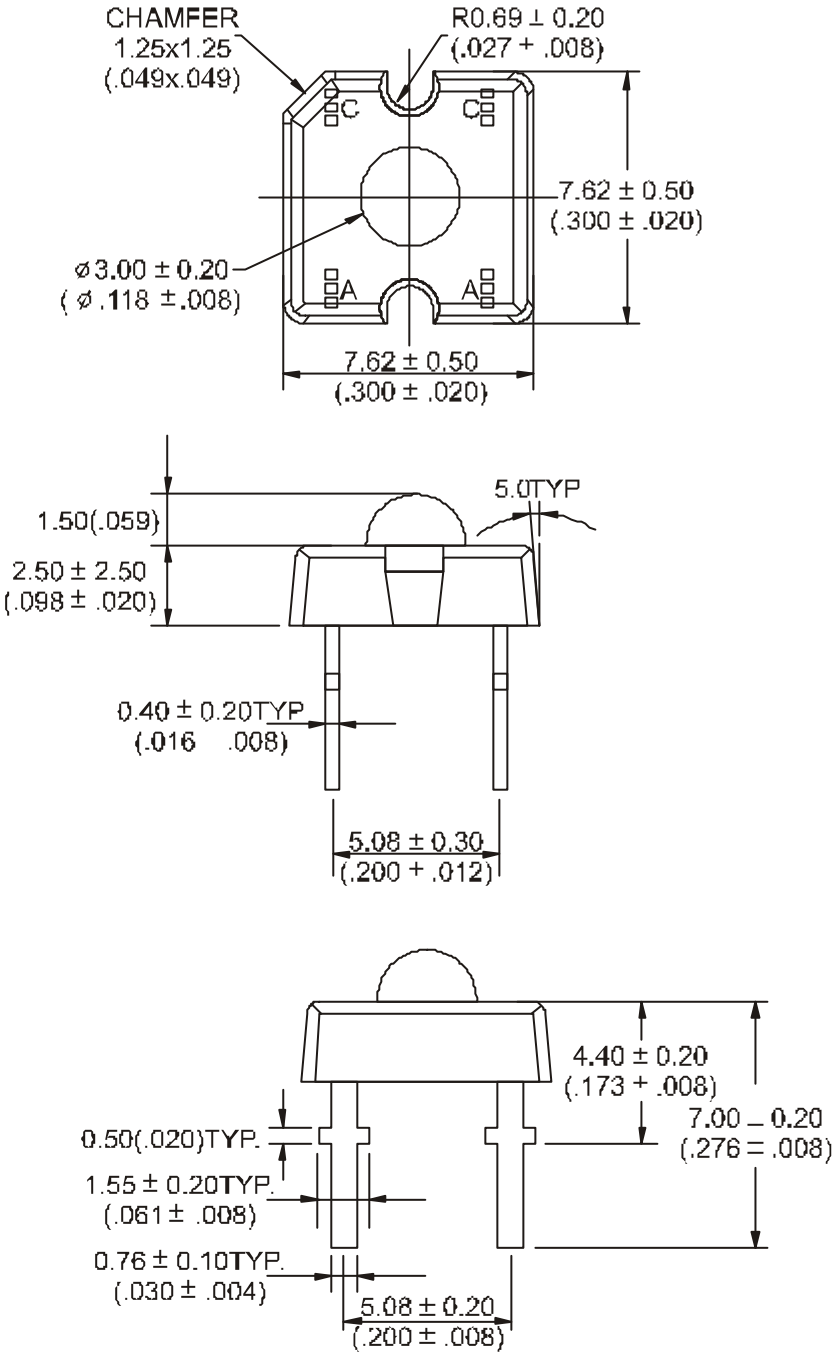
Parameter	Symbol	AlGaAs	GaAsP	AlGaInP	InGaN	Unit
Power Dissipation	P_{ad}	60	80	75	120	mW
Peak Forward Current *	I_{pf}	150	150	150	100	mA
Continuous Forward Current	I_{af}	25	30	30	30	mA

Notes:
· * Test Condition = Duty 0.1,10KHZ

Ningbo Foryard Optoelectronics Co.,Ltd
No.115 Qixin Road Jiangdong District Ningbo 315051,Ningbo,Zhejiang, China
Tel:+86-574-87927870 fax:+86-574-87927917 Website:www.foryard.com

■ **Package configuration & Internal circuit diagram:**

FYLF-1860xx



Notes:

· All dimensions are in millimeters (inches)
· Tolerance is ±0.25(0.01")unless otherwise noted.
· Specificaions are subject to change whitout notice.

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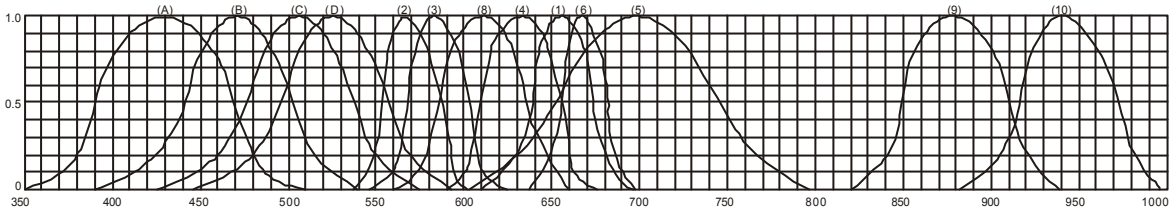
■ Absolute maximum ratings (Ta=25℃)

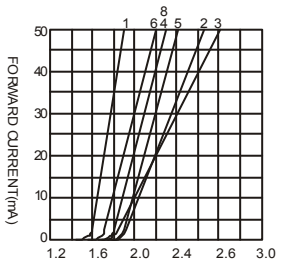
Reverse Voltage	5V
Reverse Current	20μA
Operating Temperature Range	-40℃to+85℃
Storage Temperature Range	-40℃to+85℃
Lead Solder Temperature (1.6mm(1/16")from body) 230℃ for 5 Seconds	

■ Typical electrical-optical characteristics curves:

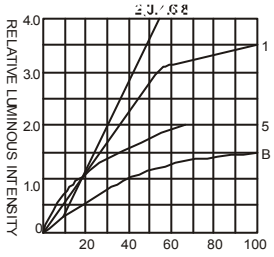


RELATIVE INTENSITY Vs WAVELENGTH(λp)

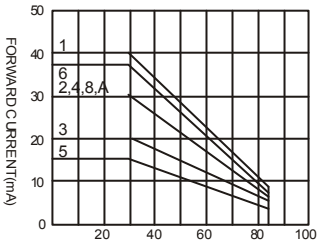
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



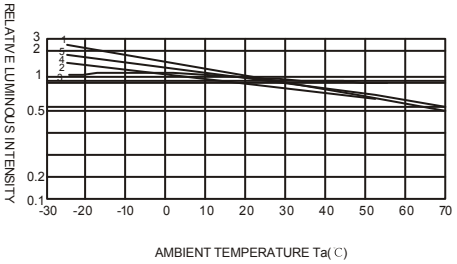
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



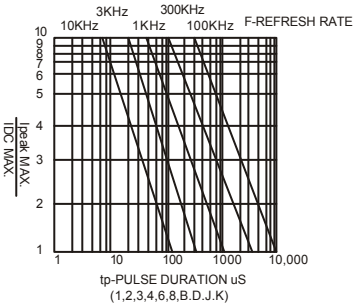
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



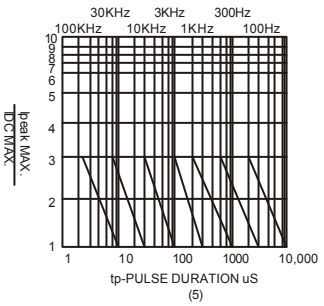
AMBIENT TEMPERATURE Ta(℃)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(℃)



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



tp-PULSE DURATION uS
(5)

NOTE:25℃ free air temperature unless otherwise specified

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