

■ Features:

- 5.0mm Round Type LED Lamps
- Choice of various viewing angles.
- Diffused, Transparent and Water clear lens are available.
- Popular T-1 diameter package.
- IC compatible /Low current capability.

■ Part No.:

FYL-	Iv TYP.(mcd)	View Angle (2 θ 1/2)	FYL-	Iv TYP.(mcd)	View Angle (2 θ 1/2)
5016ARGBD	468	120 °	5016AURUGU BD	1450	120 °

Note: Len Color: C=Water Clear, D=Color Diffused, T=Color Trans

■ Description:

- Color Code & Chip characteristics: (Test Condition: IF=20mA)

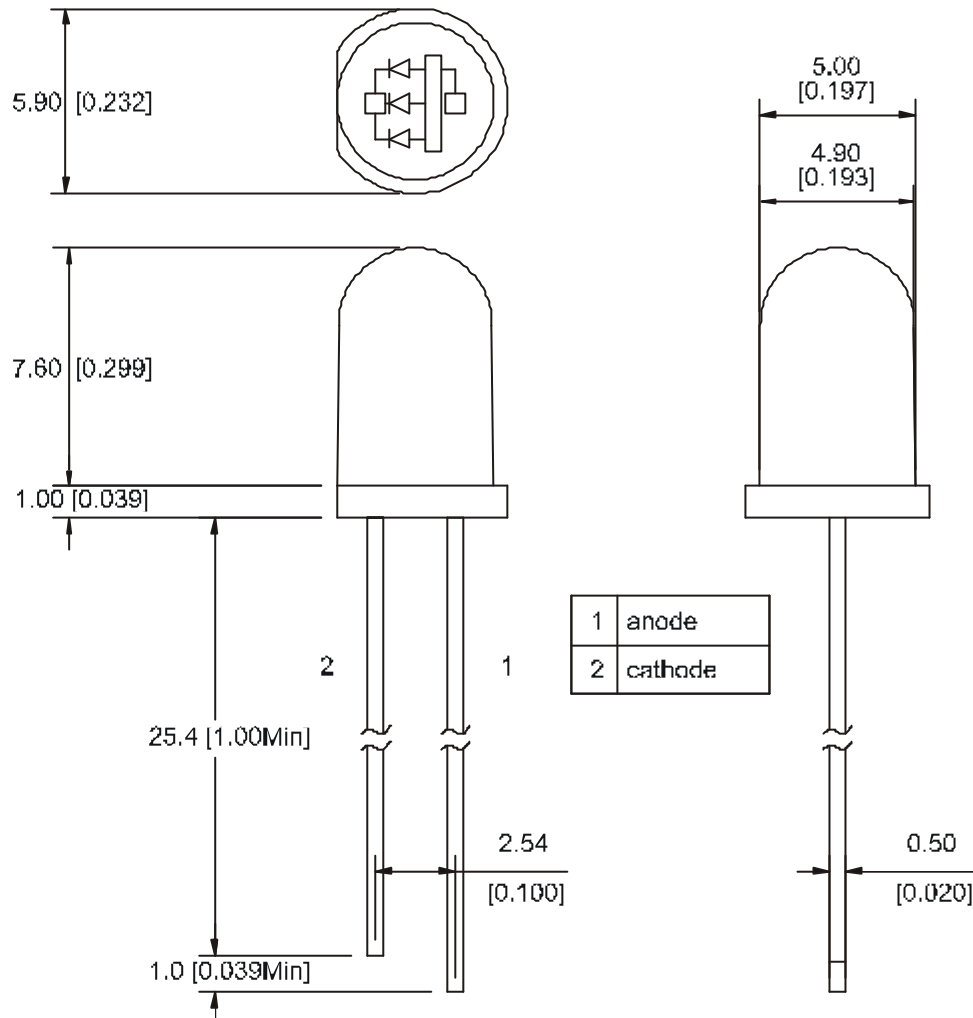
Emitting Color		Dice Material	Peak Wave Length (λ _P)	Spectral Line halfwidth(λ _{1/2})	Forward Voltage(VF) Unit:V		Luminous Intensity (I _v) Unit:ucd
					Typ	Max	
H	Red	GaP/GaP	700nm	90nm	2.25	2.60	500
G	Green	GaP/GaP	570nm	30nm	2.20	2.50	2500
B	Blue	InGaN	430nm	30nm	3.80	4.50	5000
UR	Ultra Red	AlGaAs,DDH	660nm	20nm	1.95	2.20	7000
UG	Ultra Green	AlGaInP	574nm	30nm	2.20	2.50	5000
UB	Ultra Blue	InGaN	470nm	30nm	3.80	4.50	7000

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

Parameter	Symbol	GaP(Red)	AlGaAs	GaAsP	GaP(Green)	Unit
Power Dissipation	P _{ad}	40	60	80	80	mW
Peak Forward Current *	I _{pf}	50	150	150	150	mA
Continuous Forward Current	I _{af}	15	25	30	30	mA

Notes:

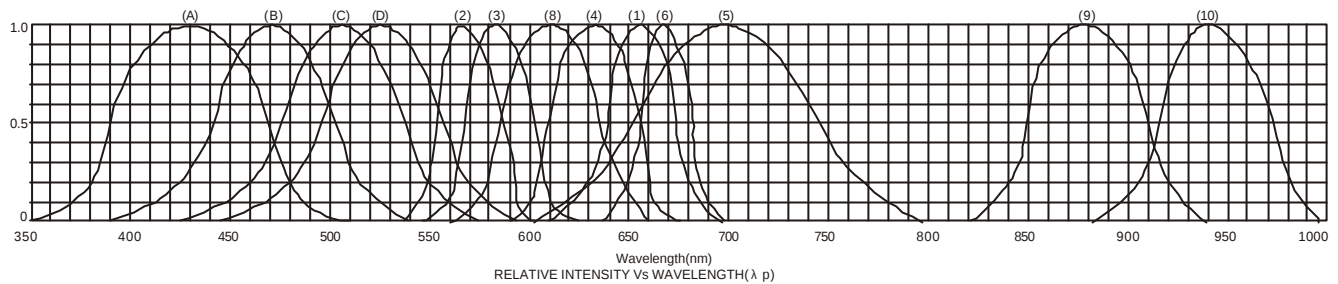
- * Test Condition = Duty 0.1,10KHZ

■ Package configuration & Internal circuit diagram:

Notes:

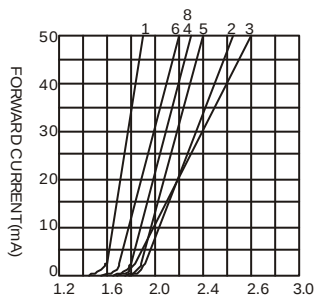
- All dimensions are in millimeters (inches)
- Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- Specifications are subject to change without notice.

■ Absolute maximum ratings (Ta=25 °C)

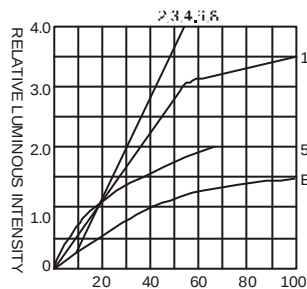
Reverse Voltage	5V
Reverse Current	20 μ A
Operating Temperature Range	-40 to +85
Storage Temperature Range	-40 to +85
Lead Solder Temperature (1.6mm(1/16") from body) 230 °C for 5 Seconds	

■ Typical electrical-optical characteristics curves:


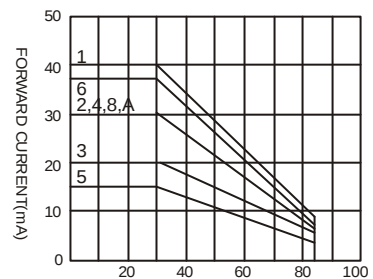
- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (9) - GaAlAs 880nm |
| (2) - GaP 570nm/Yellow Green | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow | (A) - GaN/SiC 430nm/Blue |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue |
| (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 | |



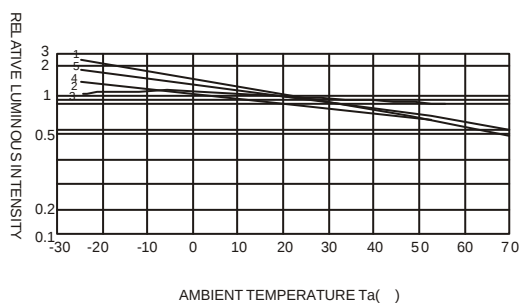
FORWARD VOLTAGE (V)
FORWARD CURRENT VS.
FORWARD VOLTAGE



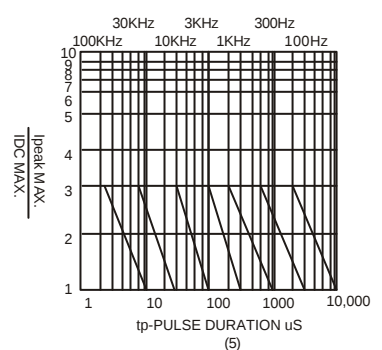
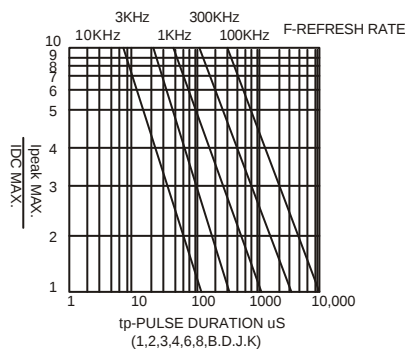
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



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



AMBIENT TEMPERATURE T_a (°)



NOTE:25 free air temperature unless otherwise specified