NINGBO FORYARD OPTO
ELECTRONICS CO.,LTD.

OUTDOOR LAMP CLUSTER

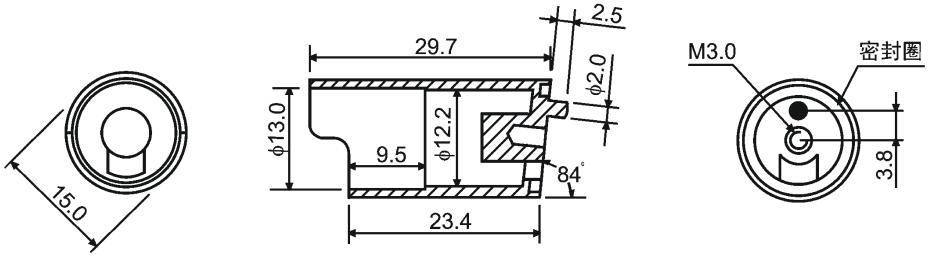
PartNO.:FYCL-R15Axx

DESCRIPTION

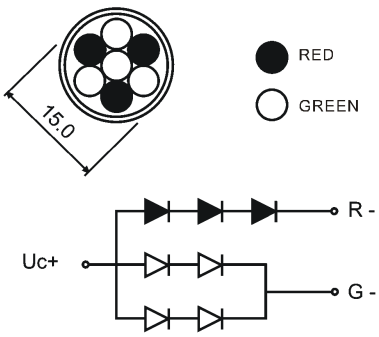
- **Shape: round**
- **diameter:15.0mm**
- **High visibility**
- **Emitting Color: red,green,blue**
- **No of Built-in 5mm LED Lamps :**
- **Ultra orange - xpcs,green – xpcs ,blue – x1pcs.**
- **Waterproof Package With Hood Suitable**
- **For Outdoor and Indoor Information Boards**

Package Dimensions &Internal Circuit Diagram

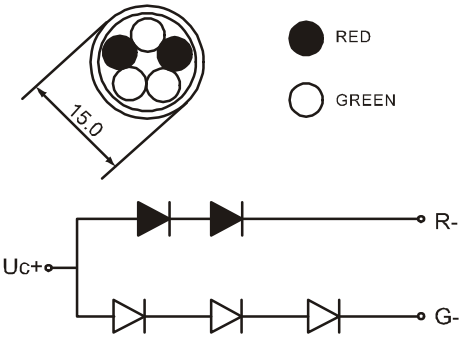
FYCL-R15A Series



FYCL-S15AR3G4



FYCL-S15AR2G3



Notes:

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

ADD: NO.115 QiXin Road NingBo Zhejiang China ZIP.: 315051
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: Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Test Condition	Value		Unit
			Min	Max	
Reverse Voltage	VR	IR=30μA	5	-----	V
Forward Current	IF	-----	------	30	mA
Power Dissipation	Pd	-----	------	100	mW
Pulse Current	Ipeak	Duty=0.1mS, 1KHz	------	150	mA
Operating Temperature	Topr	-----	-40	+85	° C
Storage Temperature	Tstr	-----	-40	+85	° C

• -XX: Surface / Lens color:

Number	0	1	2	3	4	5
Ref Surface Color	White	Black	Gray	Red	Green	
Epoxy Color	Water clear	White diffused	Red Diffused	Green Diffused	Yellow Diffused	

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■ **Description:**

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

Emitting Color		Dice Material	Peak Wave Length(λ_P)	Spectral Line halfwidth($\triangle\lambda 1/2$)	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd
					Typ	Max	
H	Red	GaP	700nm	90nm	2.20	2.50	5.0
S, SR	Hi Red	AlGaAs,SH	660nm	20nm	1.80	2.20	15-20
D	Super Red	AlGaAs,DH	660nm	20nm	1.80	2.20	20-30
LR	Ultra Red	AlGaAs,DDH	660nm	20nm	1.90	2.40	26-38
HR	HE Red	GaAsP	640nm	45nm	1.90	2.40	50-80
E	Orange	GaAsP	630nm	35nm	2.10	2.50	10-20
A	Amber	GaAsP	610nm	35nm	2.10	2.50	15-20
Y	Yellow	GaAsP	590nm	35nm	2.10	2.50	15-20
G	Green	GaP	570nm	30nm	2.20	2.50	14-18
Ultra brightness							
UHR	Ultra Hi Red	AlGaInP	645nm	20nm	2.10	2.50	80-150
UE	Ultra Orange	AlGaInP	630nm	20nm	2.10	2.50	180-210
UA	Ultra Amber	AlGaInP	610nm	20nm	2.10	2.50	90-120
UY	Ultra Yellow	AlGaInP	590nm	20nm	2.10	2.50	150-200
UG	Ultra Green	AlGaInP	570nm	30nm	2.20	2.50	60-100
PG	Ultra Pure Green	InGaN	520nm	36nm	2.80	3.80	260-310
BG	Ultra Blue Green	InGaN	505nm	36nm	2.80	3.80	260-310
B	Blue	InGaN	430nm	30nm	2.80	3.80	10-20
UB	Ultra Blue	InGaN	470nm	30nm	2.80	3.80	80-90
			460nm	30nm	2.80	3.80	80-90
V	UV	InGaN	405nm		2.80	3.80	5-8
W	White	InGaN	X=0.29,y=0.30		2.80	3.80	180-200
UW	Ultra White	InGaN	X=0.29,y=0.30		2.80	3.80	180-200
Segment-to-Segment Luminous Intensity ratio(Iv-M)					1.5:1		

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