RGB LED Lamps

5015 series 5mm Round RGB Full color LED lamp
Round Φ5 with 4 Leads

FYL-5015RGB-C
FYL-5015RGB-D

Features

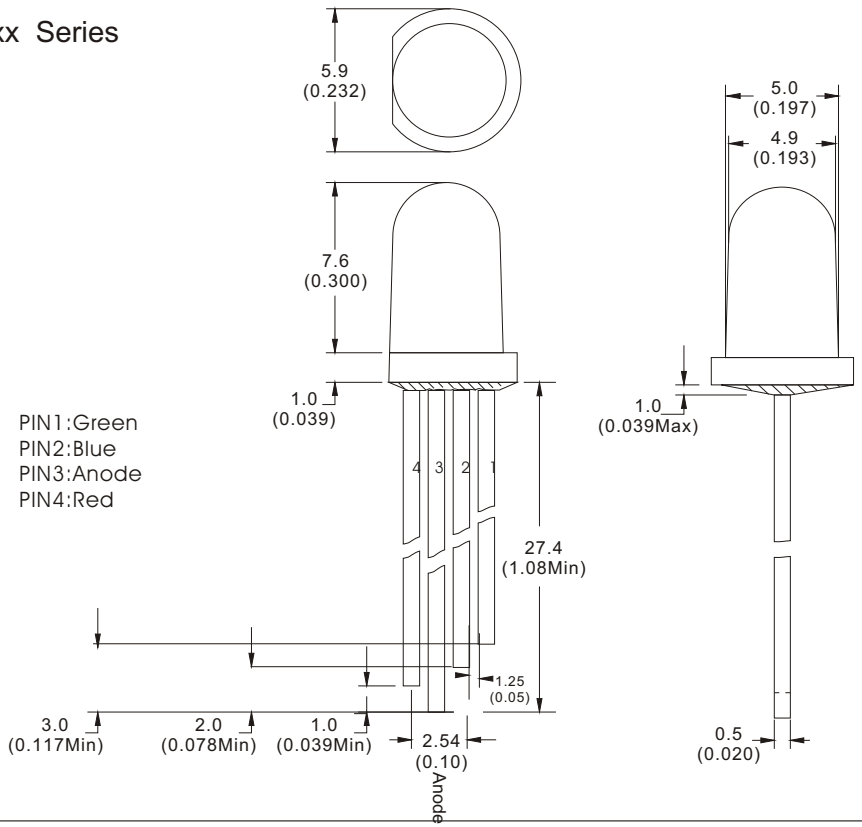
- 256 Color Capability with Red, Green, and Blue Chips
- High Intensity Illumination
- Solid State, High Shock / Vibration Resistant
- Available in Standard and Special Colors
- Water Clear Lens
- Outstanding Material Efficiency
- Reliable and Rugged
- IC Compatible/Low Current Capability
- Long Life-Solid State Reliability
- Low Power Consumption
- Easy Mounting On P.C.Board or Sockets

DESCRIPTION

R: GaAlAs/DDH Super Red
G: InGaN/SiC Ultra Green
B: InGaN/SiC Ultra Blue

Package dimensions&Internal Circuit Diagram

FYL-5013xx Series



Notes:
1.All dimensions are in millimeters(inches),Tolerance is ±0.25(0.01) unless otherwise noted.
2.Specifications are subject to change without notice.

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Selection Guide

Package	Part No. FYL-	Chip Material/Emitted Color		Lens Appearance	Absolute Maximum Ratings △λ (nm)	Pd (mw)	If (mA)	Peak (mA)	Electro-optical Data(At 20mA) Vf(V) Typ	Vf(V) Max	Iv (mcd) Typ	Viewing Angle 2θ1/2 (deg)
Round Φ5 with 4 Leads	5015RGB-C	R: GaAlAs/DDH Super Red	660	Water clear	20	60	25	150	1.85	2.20	800	30
		G: InGaN/SiC Ultra Green	525	Water clear	36	110	30	150	3.80	4.50	4000	
		B: InGaN/SiC Ultra Blue	470	Water clear	30	120	30	100	3.80	4.50	1500	
	5015RGB-D	R: GaAlAs/DDH Super Red	660	Water diffused	20	60	25	150	1.85	2.20	300	
		G: InGaN/SiC Ultra Green	525	Water diffused	36	110	30	150	3.80	4.50	700	
		B: InGaN/SiC Ultra Blue	470	Water diffused	30	120	30	100	3.80	4.50	300	

Notes:
1. Is the angle from optical centerline where the luminous intensity is1/2 the optical centerline value.

Absolute Maximum Rating (Ta=25℃ Derate above 25℃)

Characteristic	Condition	Symbol	DDH super Red	Ultra Green	Ultra Blue
Pulse Forward Current	0.1 duty cycle 0.1ms pulse width	Ifp	150mA	150mA	100mA
DC Forward Current		If	25mA	30mA	30mA
Reverse Current	Vr=5V	Ir	20μA	20μA	20μA
Power Dissipature		PD	60mW	110mW	120mW
Operating Temperature		Topr	-40∽+80℃		
Storage Temperature		Tstg	-40∽+85℃		
Lead Soldering Temperature	1.60mm from body-maximum 3second		260±5℃		

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