

# Product Specification

**Denomination** **LED LAMPS**

**Manufacturer P/N** **519RGBC**

**Customer P/N**

Confirmation Column

Ø5.0mm R/G/B LED LAMPS

Release Date:2006/4/12

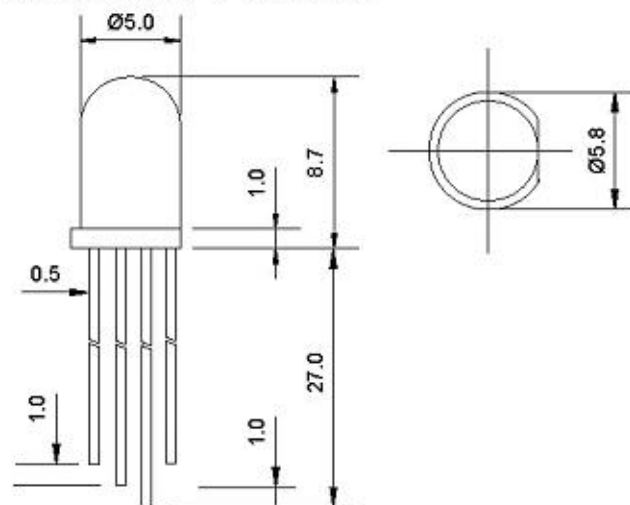
YUAN KE ELECTRONICS COMPANY LTD.

# YK 5.0mm R/G/B LED LAMP

## FEATURES

- Standard diameter 5mm package.
- Viewing angle: 20°
- Water clear.
- High radiant power.
- Long life and high reliability.
- I.C. compatible.
- Chip material AlGaInP /CaN

## PACKAGE DIMENSIONS



Tolerance:  $\pm 0.2$

Unit mm

## ABSOLUTE MAXIMUM RATINGS AT Ta=25°C.

PARAMETER	R	G/B	UNIT
Power Dissipation	80	100	mW
Peak forward current	120	150	mA
Continuous forward current	20		mA
Derating lineser from 50°C	0.4		mA/°C
Reverse voltage	5		V
Operating temperature range	-40°C to +80°C		
Storage temperature range	-40°C to +80°C		
Lead soldering temperature	260°C for 5 Seconds		

## ELECTRICAL OPTICAL CHARACTERISTICS AT Ta=25°C

PART NO.	EMITTED COLOR	Wave Length	FORWARD VOLTAGE I <sub>f</sub> =20mA(V)			REVERSE CURRENT V <sub>r</sub> =5v(μ A)	LUMINOUS INTENSITY I <sub>f</sub> =20mA(mcd)		VIEWING ANGLE 2 θ 1/2(deg)
		λ <sub>p</sub> (nm)	MIN	TYP	MAX	MAX	MIN	TYP	
519RGBC	Red	623-627	1.8	2.25	2.6	10	1500	1800	20
	Green	515-520	2.7	3.25	3.5	50	2500	3000	20
	Blue	465-470	2.7	3.2	3.5	50	1800	2300	20

# YK 5.0mm R/G/B LAMPS

1. Standard Test Condition: All mentioned parameters if no special provision conform as follow  
Temperature: 25~30℃  
Humidity: ≤60%RH
2. Storage & Usage Environment
  - 2.1 Averting from being eroded by sulfureted hydrogen and preventing static electricity during usage or storage.
  - 2.2 Averting from point-blank daylight during during usage or storage.
  - 2.3 Emitting surface don't touch the chemical, like flux...etc.
  - 2.4 Care must be taken not to be pressed by heavy during product storage.
  - 2.5 Don't force the leads entad or forth during soldering.
3. Modification Items  
The content of this specification can be modified according to agreement.
4. Packing

1000pcs	per bag
10bags	per box
6boxes	per carton