

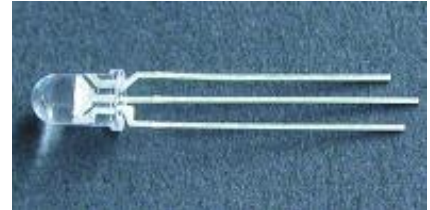
BEELED

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MODEL: 5019R1G6C-DHB

Features

- ◇ Red and Yellow Green chips are matched for uniform light output.
- ◇ Common Cathode. Chip placed in middle
- ◇ T-1 3/4 type package.
- ◇ Long life solid state reliability.
- ◇ Low power consumption.
- ◇ I.C. compatible.
- ◇ Pb free
- ◇ The product itself will remain within RoHS compliant Version.



Descriptions

- ◇ The lamp contain two integral chips and is available bicolor.
- ◇ The Red and Yellow Green light is emitted by diodes of GaAsP/ GaP and GaP respectively.
- ◇ White Diffused lens color

Usage Notes:

- Surge will damage the LED
- When using LED, it must use a protective resistor in series with DC current about 18mA

Applications

- ◇ TV set.
- ◇ Monitor.
- ◇ Telephone.
- ◇ Computer
- ◇ Circuit board

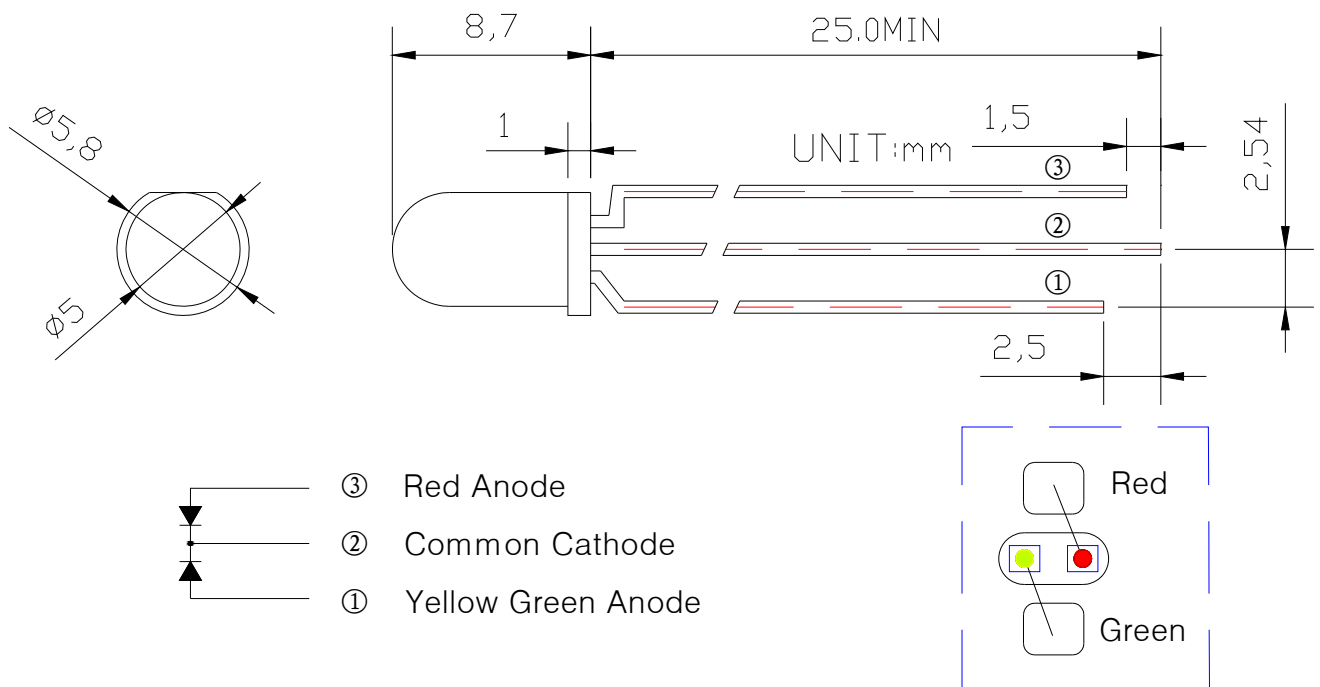
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Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
5019R1G6C-DHB	GaAsP/GaP	Red	Water clear
	GaAsP/GaP	Green	

Package Dimensions



Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

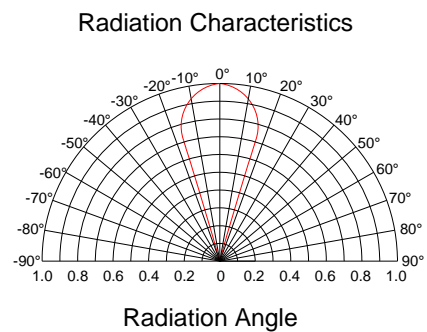
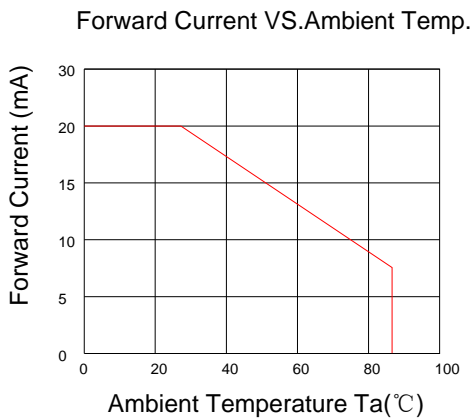
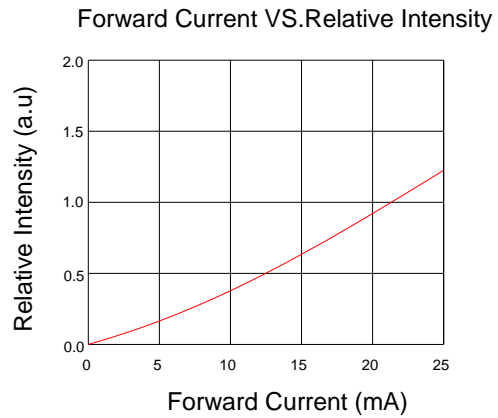
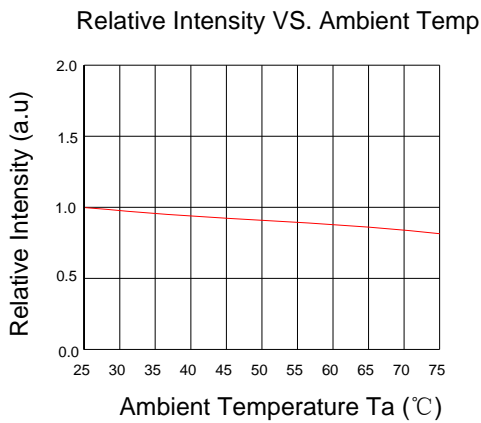
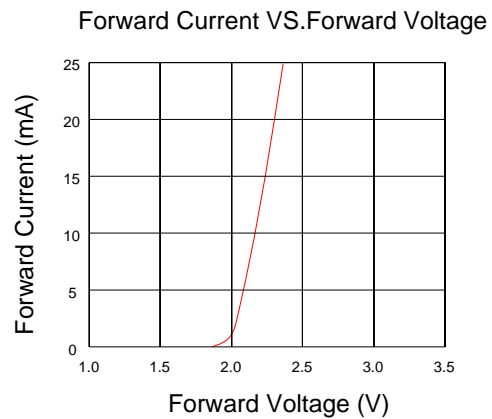
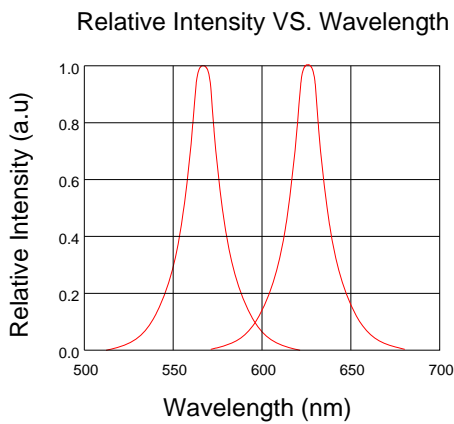
Absolute Maximum Rating ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I_{FPM}	100	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_{R}	5	V
Power Dissipation	P_{D}	140	mW
Operating Temperature	T_{opr}	-40~+80	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40~+100	$^{\circ}\text{C}$
Soldering Heat (5s)	T_{sol}	260	$^{\circ}\text{C}$

Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Device	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_{v}	Red	100		250	mcd	IF=20mA
		Green	100		150		
Viewing Angle	$2\theta_{1/2}$	Red	30	---	40	Deg	(Note 1)
		Green					
Peak Emission Wavelength	λ_{p}	Red	620	630	635	nm	IF=20mA
		Green	565	570	575		
Spectral Line Half-Width	$\Delta\lambda$	Red	15	20	25	nm	IF=20mA
		Green	15	20	25		
Forward Voltage	V_{F}	Red	1.9	---	2.5	V	IF=20mA
		Green	1.9	---	2.5		
Reverse Current	I_{R}	Red	---	---	10	μA	VR=5V
		Green	---	---			

Typical Electro-Optical Characteristics Curves





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