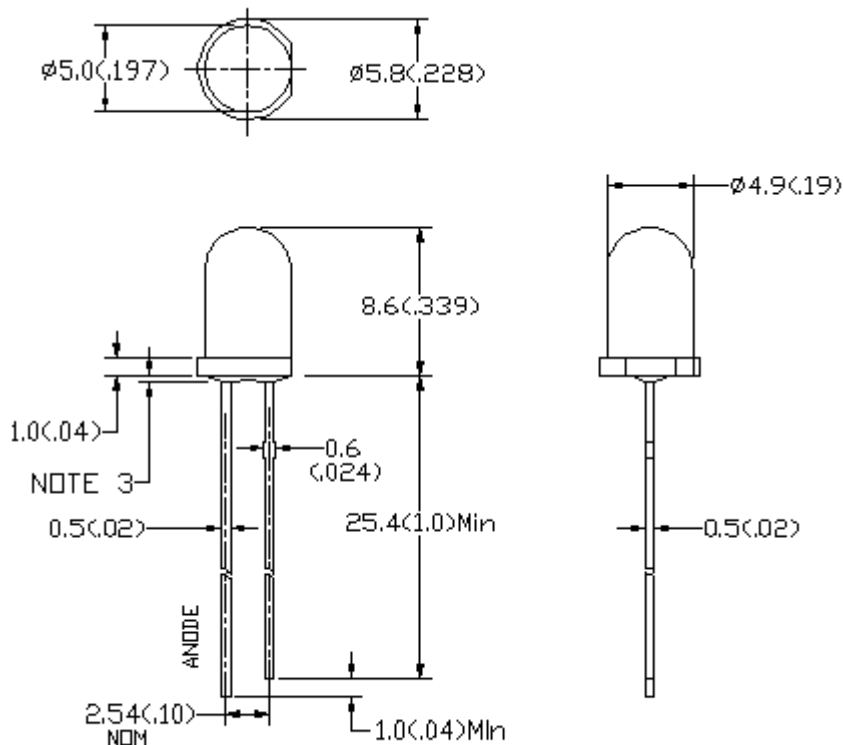




Features:

- ◆ CMOS Technology
- ◆ Designed for bonding with LED chip
- ◆ Blinking Frequency: 34s/Cycle (Vdd=4.0V)
- ◆ Frequency tolerance : ±20%
- ◆ With both sink and source output drivers

Package Dimensions:



Part No.	Chip Material	Lens Color	Source Color
5XRGB-F2-S	AlGaInP	Water Clear	Red
	InGaN	Water Clear	Green
	InGaN	Water Clea	Blue

Notes:

- 1.All dimensions are in millimeters (inches).
- 2.Tolerance is $\pm 0.25\text{mm} (.010)$ unless otherwise noted.
- 3.Protruded resin under flange is $1.5\text{mm} (.059)$ max.
- 4.Lead spacing is measured where the leads emerge from the package.
- 5.Specifications are subject to change without notice.

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**Absolute Maximum Ratings at Ta=25°C****Light color: Red、Green、 Blue Color**

- Reverse current: 100 μ A
- Peak current (duty=0.1,1KHz): 100 mA
- Operating/Storage temperature range: -30°C~+85°C
- Derating linear from 25°C: 0.4 mA/°C
- Lead soldering temperature range: 260°C for 5 second

Electrical Optical Characteristics at Ta=25°C**RED COLOR:**

Parameter	Symbol	Min	Typ.	Max	Unit	Test Condition
Forward voltage	V_F	❖	2.00	2.25	V	IF=20 mA
Luminous intensity	I_V	2000		4000	mcd	IF=20 mA
Peak emission wavelength	λ_p	625		640	nm	❖
Half intensity angle	$\Delta \Theta$	❖	30	40	deg	❖

GREEN COLOR:

Parameter	Symbol	Min	Typ.	Max	Unit	Test Condition
Forward voltage	V_F	❖	3.5	4	V	IF=20 mA
Luminous intensity	I_V	6000		9000	mcd	IF=20 mA
Peak emission wavelength	λ_p		520	530	nm	❖
Half intensity angle	$\Delta \Theta$	❖	30	40	deg	❖

BLUE COLOR:

Parameter	Symbol	Min	Typ.	Max	Unit	Test Condition
Forward voltage	V_F	❖	3.5	4	V	IF=20 mA
Luminous intensity	I_V	2000		4000	mcd	IF=20 mA
Peak emission wavelength	λ_p	460		475	nm	❖
Half intensity angle	$\Delta \Theta$	❖	30	40	deg	❖

Direct Current Characteristics

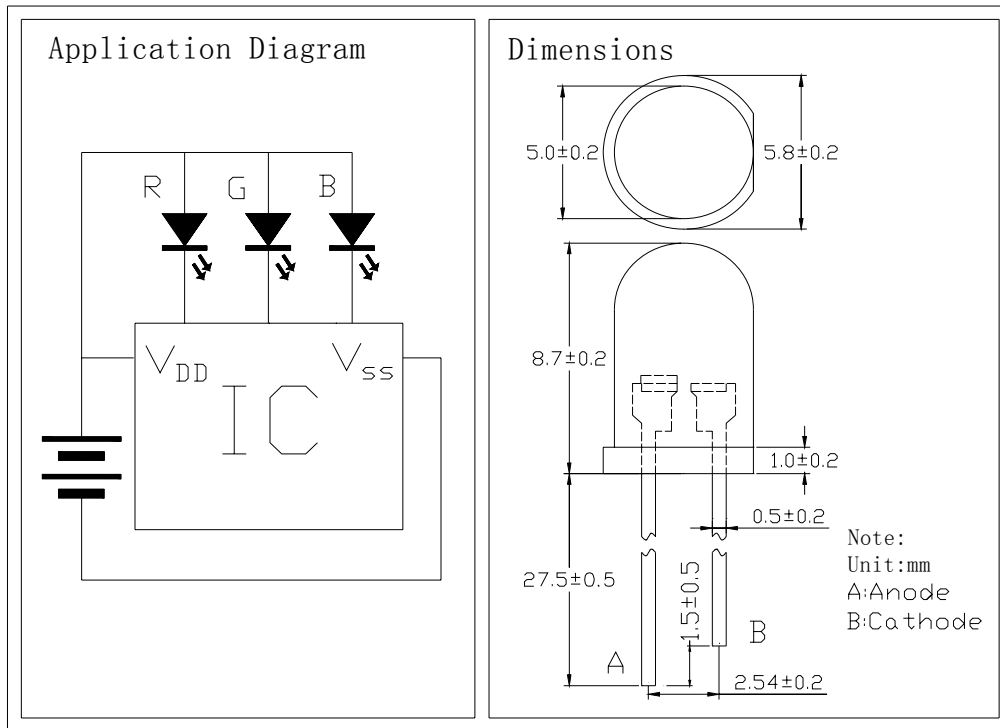
Parameter	Symbol	Min	Typ.	Max	Unit	Remarks
Operating voltage	VDD	3.5		4.5	V	❖
Driver Current	Iol		50		mA	@V _{DS} =1.2V
Power Consumption	Po		225		mW	V _{DD} =4.5V
Flash Frequency	Ftet		3.4	❖	Hz	External \pm 30%

*All specs and applications shown above subject to change without prior notice.

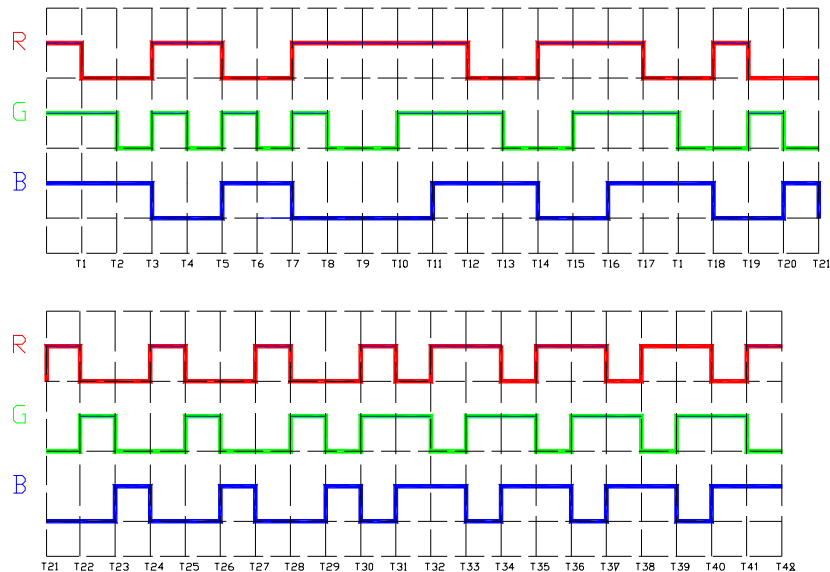
(以上电路及规格仅供参考，本公司可进行修正)

Part No.	5XRGB-F2-S	Spec No.	S/N-050909225	Page	2 of 3
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Application diagram and Dimensions



Output Sketch Map



*All specs and applications shown above subject to change without prior notice.

(以上电路及规格仅供参考，本公司可进行修正)

Notes:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ_P) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.