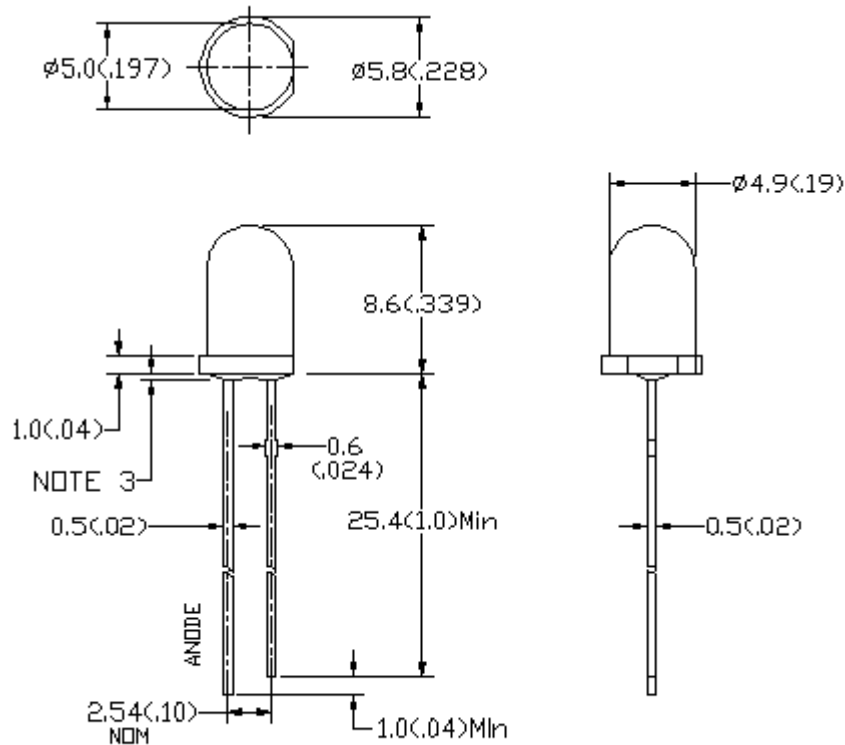


Features:

- ◆ CMOS Technology
- ◆ Designed for bonding with LED chip
- ◆ Blinking Frequency: 15s/Cycle
- ◆ Frequency tolerance : $\pm 20\%$
- ◆ With both sink and source output drivers

Package Dimensions:



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

Notes:

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

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	$I_F=20\text{ mA}$
Luminous intensity	I_V	800		1500	mcd	$I_F=20\text{ mA}$
Peak emission wavelength	λ_p	620	630	640	nm	❖
Half intensity angle	$\Delta \Theta$	❖	40	❖	deg	❖

GREEN COLOR:

Parameter	Symbol	Min	Typ.	Max	Unit	Test Condition
Forward voltage	V_F	❖	3.3	4	V	$I_F=20\text{ mA}$
Luminous intensity	I_V	2000		4000	mcd	$I_F=20\text{ mA}$
Peak emission wavelength	λ_p	515	520	530	nm	❖
Half intensity angle	$\Delta \Theta$	❖	30	❖	deg	❖

BLUE COLOR:

Parameter	Symbol	Min	Typ.	Max	Unit	Test Condition
Forward voltage	V_F	❖	3.3	4	V	$I_F=20\text{ mA}$
Luminous intensity	I_V	1000		2000	mcd	$I_F=20\text{ mA}$
Peak emission wavelength	λ_p		460	475	nm	❖
Half intensity angle	$\Delta \Theta$	❖	30	❖	deg	❖

Direct Current Characteristics

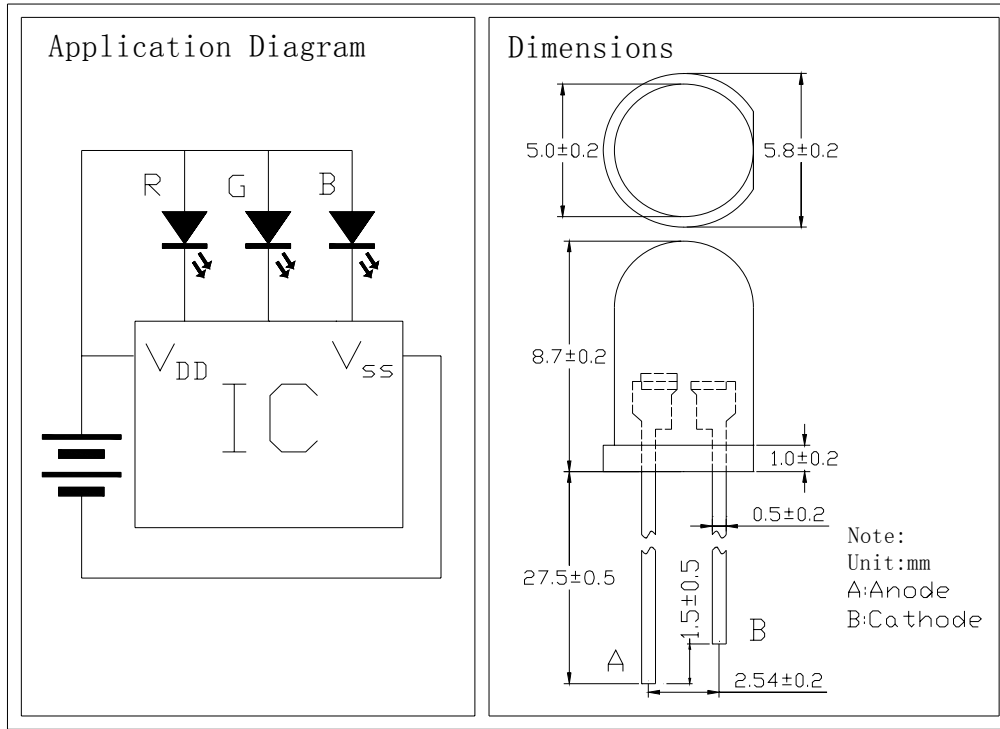
Parameter	Symbol	Min	Typ.	Max	Unit	Remarks
Operating voltage	V_{DD}	3.3	3.5	4.0	V	❖
Driver Current	I_{ol}		50		mA	@ $V_{DS}=1.2V$
Power Consumption	P_o		225		mW	$V_{DD}=3.5V$
Flash Frequency	F_{tet}		1.5	❖	Hz	External $\pm 30\%$

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

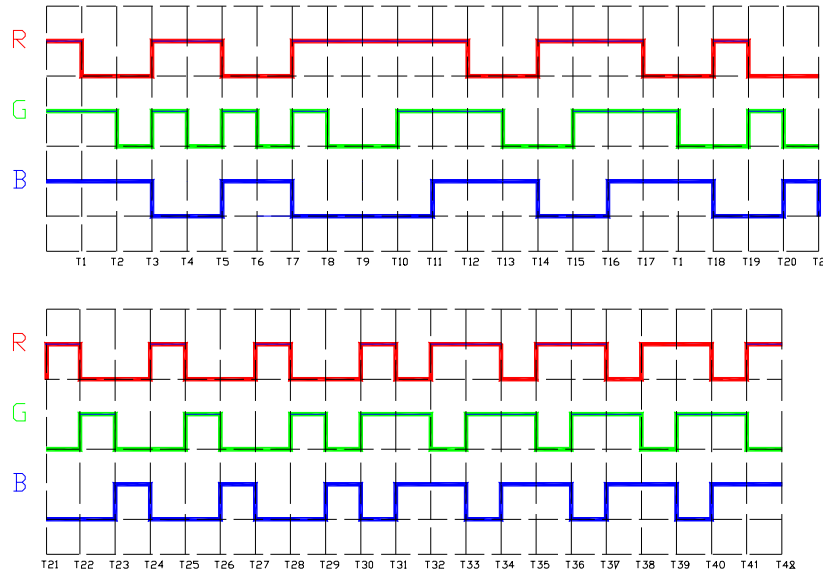
(以上电路及规格仅供参考，本公司可进行修正)

Part No.	5XRGB-F2-F	Spec No.	S/N-050909125	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.