

TX-2828RGBLA120C11F5-01

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under RGBA:800mA, L:1600mA.
- ◆Provide uniform cross distribution of positive white and warm white dual color scheme, mixed pure.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆Red:AlGaInP
- ◆Green:GaInN
- ◆Blue:GaN
- ◆Lemon:GaN
- ◆PC Amber:GaN

Emitting Color:

- ◆Red
- ◆Green
- ◆Blue
- ◆Warm White
- ◆PC Amber

Applications:

- ◆Indoor lighting
- ◆Outdoor lighting
- ◆Industrial lighting
- ◆Consumer lighting

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Part No.



1.All dimensions are in millimeters .

2.Tolerances unless otherwise mentioned are $\pm 0.25\text{mm}$.

Absolute Maximum Ratings

Parameter	Symbol		MAX.	Unit
Power Dissipation	P _D	R	14.5	W
		G	17	
		B	17	
		L	34	
		A	18	
Continuous Forward Current	I _F	R	900	mA
		G	1000	
		B	1000	
		L	2000	
		A	1000	
Reverse Voltage	V _R		—	V
LED Junction Temperature	T _j		115	°C
ElectrostaticDischarge Threshold (ESD)	ESD		2000	V
Operating Temperature Range	T _{opr}		-30 to +80	°C
Storage Temperature Range	T _{spr}		-30 to +100	

Notes:

1.Specifications are subject to change without notice.

2.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.

3.Precautions for ESD:

STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

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Electrical Optical Characteristics

(Tc=25°C,R/G/B/A:IF=800mA,L:IF=1600mA)

Parameter	Symbol	Emitting Color	Values			Units
			Min.	Typ.	Max.	
Luminous Flux	Φ_v	R	350	450	—	lm
		G	850	1000	—	
		B	170	210	—	
		L	2400	2900	—	
		A	900	1100	—	
Viewing Angle at 50 % IV	$2\theta_{1/2}$	R	—	115	—	Deg
		G	—	115	—	
		B	—	115	—	
		L	—	115	—	
		A	—	115	—	
Peak Emission Wavelength	λ_p	R	638	643	648	nm
		G	515	520	525	
		B	443	448	453	
Dominant Wavelength	λ_d	R	628	631	634	nm
		G	524	527	530	
		B	452	455	458	
Spectral Line Half-Width	$\Delta\lambda$	R	12	17	22	nm
		G	28	33	38	
		B	15	20	25	
Forward Voltage	V_f	R	12	14	16	V
		G	13	15	17	
		B	13	15	17	
		L	14	16	18	
		A	16	18	20	
Correlated Colour Temperature	CCT	L	4000	—	4500	K
		A	1700	—	1800	

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_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4.Flux is measured with an accuracy of $\pm 15\%$.
- 5.Forward voltage is measured with an accuracy of $\pm 3\%$.

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