Excellent transiting heat from LED chip operating under RGBL:1.5A

High luminous output

No UV

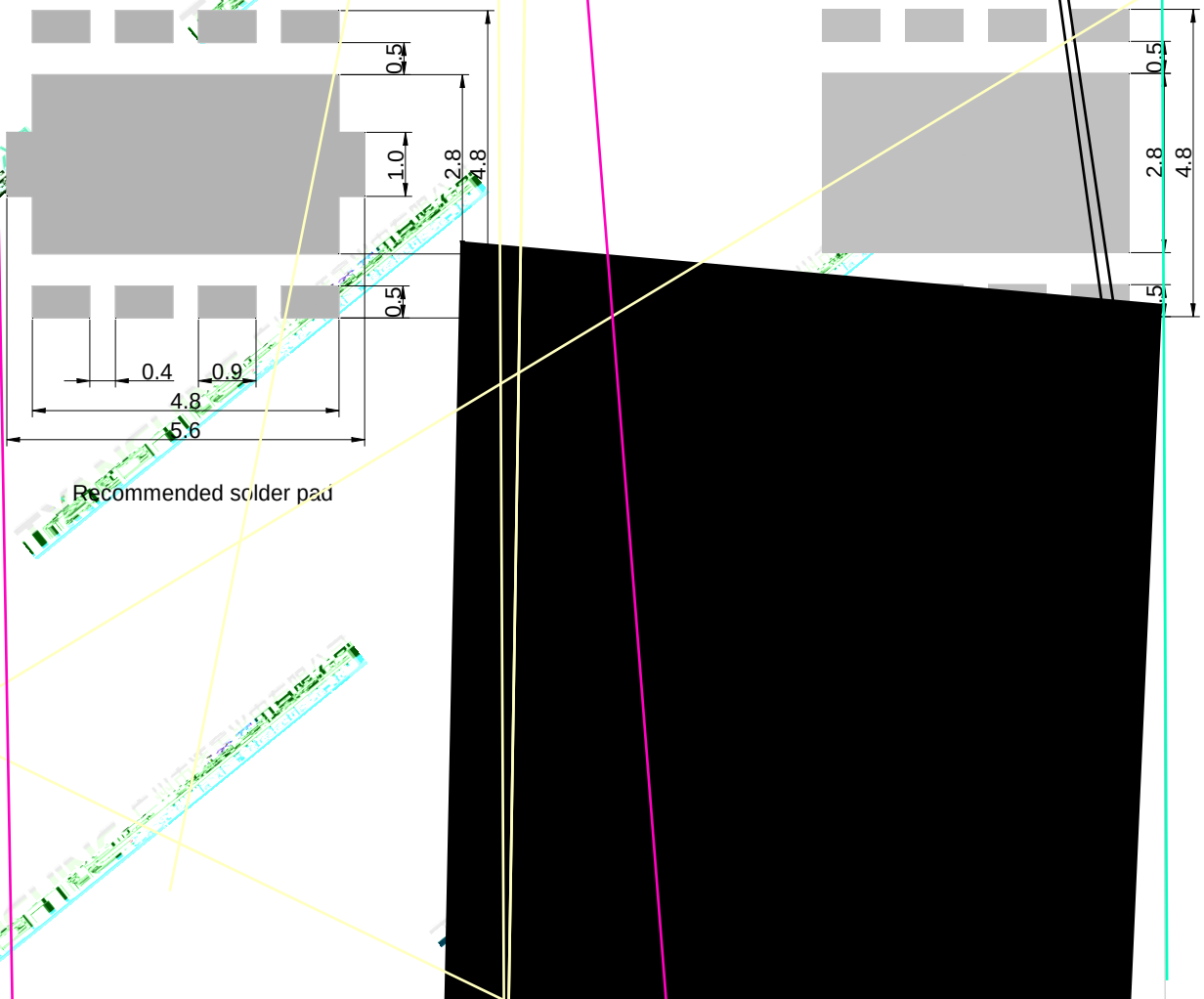
Encapsulated materials are environmentally certified and meet environmental requirements.

LEVEL1	Red(R)	Auxiliary lighting
	Green(G)	Ambient lighting
	Blue(B)	Architectural lighting
	Lime(L)	Entertainment lighting

Top view

Side view

Bottom view



Recommended solder pad

Forward Current	I_F		1.5	A
Peak Forward Current (Condition 1)	I_{FP}		1.8	
Reverse Voltage	V_R		5	V
Power Dissipation	P_D	R	4.86	W
		G	5.85	
		B	5.85	
		L	5.85	
Junction Temperature	Tj	R	115	
		G	150	
		B	150	
		L	150	
Electrostatic Discharge Threshold (ESD)	ESD		2000	V
Storage Temperature	T_{stg}		-40~70	
Operation Temperature	T_{opr}		-30~85	
Ceramic side temperature(notes 4)	T_{cs}		85	

Condition 1.Pulse width ≤0.1 msec, duty ≤1/10.

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.

4.Temperature on the side of the ceramic substrate near the heat sink.

Luminous Flux	φ_v	R	115	135	150	lm
		G	205	225	245	
		B	30	35	40	
		L	245	260	275	
Dominant Wavelength	λd	R	618	622	626	nm
		G	519	522	526	
		B	449	453	456	
Peak-emission Wavelength	λp	R	626	630	634	nm
		G	516	519	523	
		B	445	449	452	
Spectral Line Half-Width	λ	R	13	16	19	nm
		G	29	34	39	
		B	21	26	31	
		L	100	115	130	
Forward Voltage	V_f	R	2.1	2.5	2.7	V
		G	3.0	3.5	3.7	
		B	3.0	3.4	3.7	
		L	3.0	3.4	3.7	
Correlated Colour Temperature	CCT	L	3850	3925	4000	K
Reverse Current	I_R	VR=5V	—	—	2	μA
Viewing Angle at 50 IV	$2\theta_{1/2}$	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R\theta_{J-C}$	R	—	3.8	—	K/W
		G	—	4.9	—	
		B	—	4.9	—	
		L	—	3.2	—	
		Total thermal resistance	—	0.8	—	
Temperature Coefficient of Voltage	V F/T	R	—	-1	—	mV/
		G	—	-4.9	—	
		B		-2.5		
		L	—	-1.9	—	

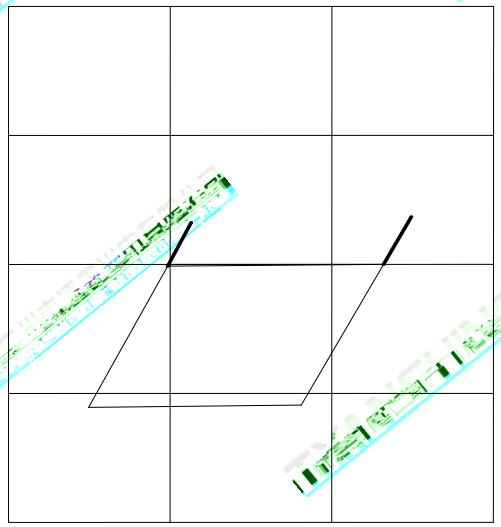
1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

2.$\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

3.Luminous flux measurement tolerance:±10%.

4.Forward voltage measurement tolerance:±10%V.

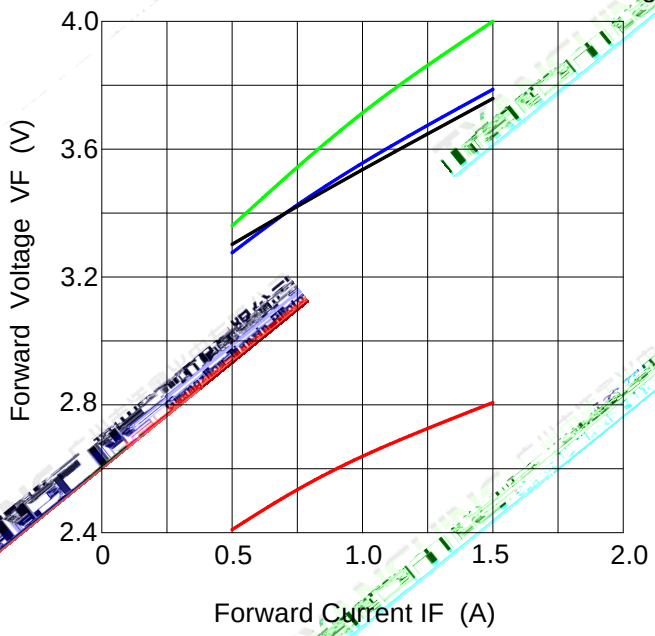
5.Ra measurement tolerance:±2.



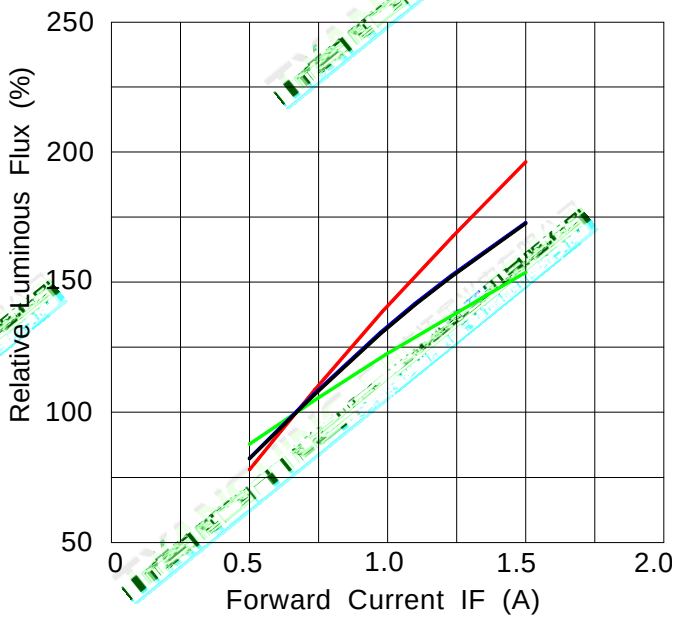
Region	CCT Range		X1	Y1	X2	Y2	X3	Y3	X4	Y4
	Min	Max								
J8	3850K	4000K	0.4281	0.5391	0.4149	0.5389	0.4198	0.5499	0.4332	0.5500

(25 Ambient Temperature Unless Otherwise Noted)

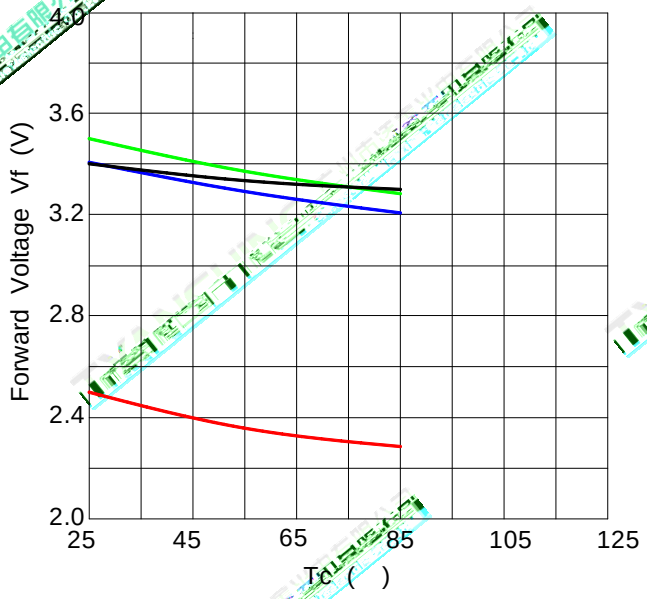
Forward Current VS. Relative Forward Voltage



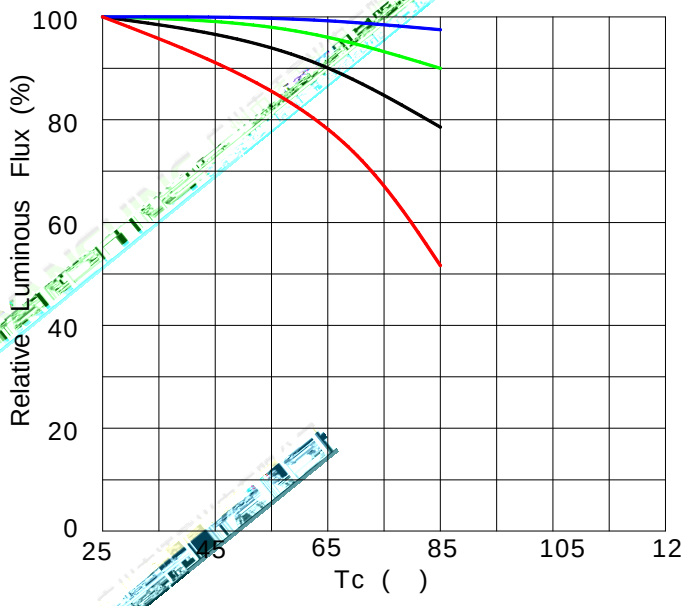
Forward Current VS. Relative Luminous Flux



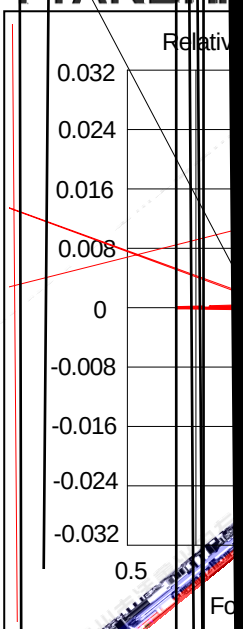
Temperature VS. Relative Forward Voltage (IF=0.7A)



Temperature VS. Relative Luminous Flux (IF=0.7A)



Red ; Green ; Blue ; Lime ;



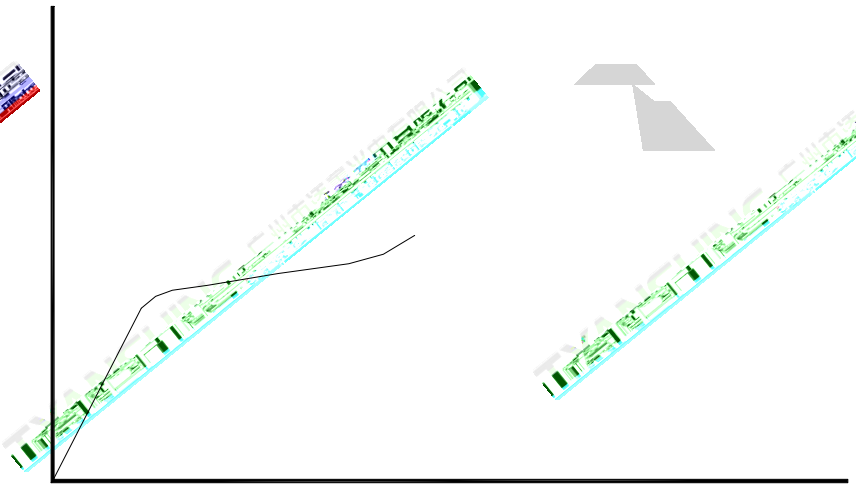
Part No.	TX-50

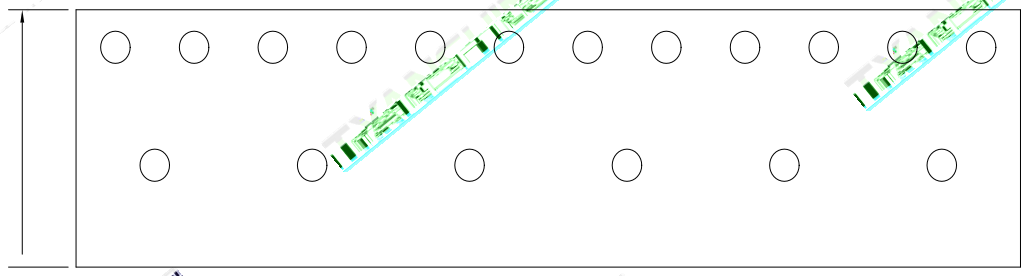
http://www.txled.cn

Temperature: 5 ~ 30 (41 ~ 86)

Humidity: 60% RH Max.

Use the conditions shown to the under figure.





		Ceramic side temperature(notes4)	
	Chip Material:	Moisture Proof Grade:	