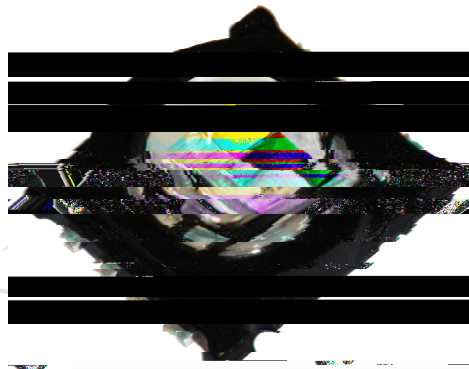


Preliminary

TX-RBWG15B120-001

DATA SHEET



Approved by:

Checked by:

Prepared by:

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Notes:

1. Thermoelectric integrated White chip packaged in this product.
2. All dimensions are in millimeters (inches).
3. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

Part NO.	Chip Material				Lens Color	Source Color
	Red	Blue	White	Green		
TX-RBWG15B120-001	AlGaInP	GaInN	GaInN	GaInN	Water Clear	Red & True Blue & White & Green

Absolute Maximum Ratings at Ta=25 "

Notes:

1. Specifications are subject to change without notice.
2. Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
3. The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
4. 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.

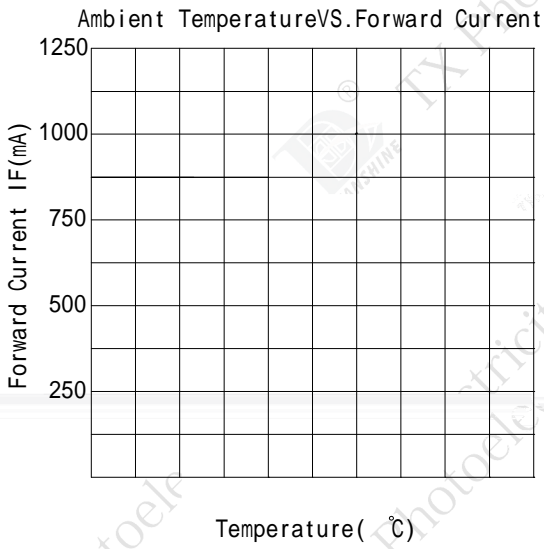
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Characteristics at If=1000mA , Vr=5V (Ta=25°C)

Parameter	Symbol	Emitting Color	Values			Units
			Min.	Typ.	Max.	
Luminous Flux	ϕ_v	R	145	185	—	lm
		B	35	60	—	
		W	260	330	—	
		G	220	285	—	
Viewing Angle at 50 μ IV	$2\theta_{1/2}$	R	—	120	—	Deg
		B	—	120	—	
		W	—	120	—	
		G	—	120	—	
Peak Emission Wavelength	λ_p	R	620	625	630	nm
		B	450	452.5	455	
		G	510	515	520	
Dominant Wavelength	λ_d	R	618	623	628	nm
		B	450	455	460	
		G	520	525	530	
Correlated Colour Temperature	CCT	W	6500	7500	8500	K
Spectral Line Half-Width	$\Delta\lambda$	R	15	20	25	nm
		B	15	20	25	
		W	15	20	25	
		G	25	30	35	
Forward Voltage	V_f	R	2.6	2.8	3.0	V
		B	3.6	3.8	4.0	
		W	3.0	3.3	3.6	
		G	3.0	3.3	3.6	
Reverse Current	I_R	—	—	—	10	μ A
Thermal Resistance Junction to Case	$R\theta_{J-C}$	—	—	1.4	—	K/W
Temperature Coefficient of Forward Voltage	$V\Delta F/T$	—	—	-2	—	mV/°C

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 $\pm 0.15V$.





PRECAUTION IN USE

Storage

Recommended storage environment

Temperature: 5 °C ~ 30 °C

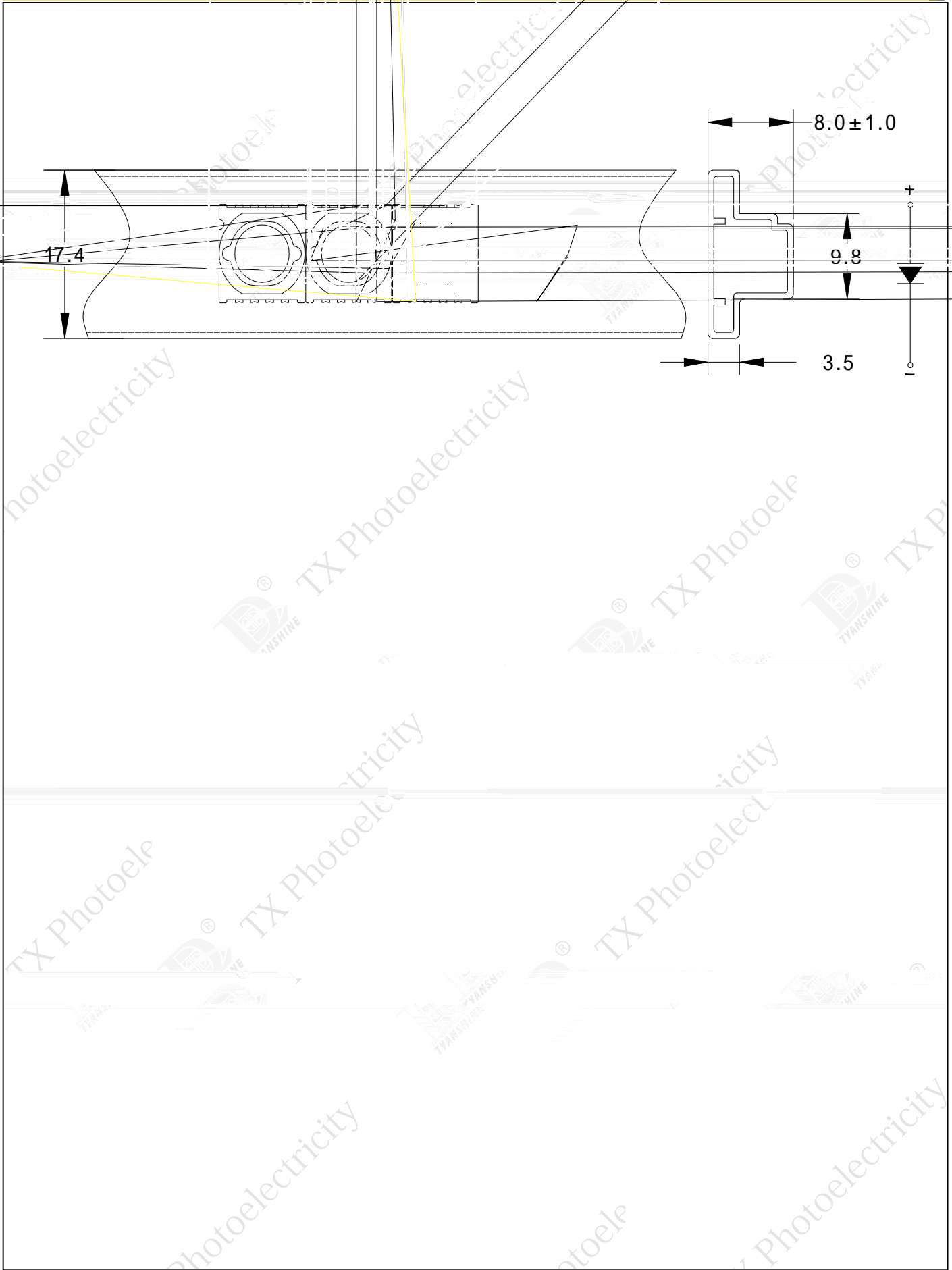
Humidity: 60% RH Max.

Soldering

Use the conditions shown in the figure

275

225



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