

**TX-R3A140-005G**

**PRODUCT SPECIFICATION**

Approved by: \_\_\_\_\_

Checked by: \_\_\_\_\_

Prepared by: \_\_\_\_\_

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Guangzhou Tianxin Photoelectric Co., Ltd.

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**Notes:**

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise noted.

**Absolute Maximum**

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**Characteristics at  $I_f=700mA$  ,  $V_r=5V$  ( $T_a=25^\circ C$ )**

Parameter	Symbol	Values			Units
		Min.	Typ.	Max.	
Luminous Flux	$\nu$	80	105	—	lm
Viewing Angle at 50%IV	$2\ 1/2$	—	140	—	Deg
Peak Emission Wavelength	$\lambda_p$	—	630	635	nm
Dominant Wavelength	$\lambda_d$	618	623	628	nm
Spectral Line Half-Width	$\Delta\lambda$	15	20	25	nm
Forward Voltage	$V_f$	2.0	2.6	3.2	V
Reverse Current	$I_R$	—	—	10	$\mu A$
Thermal Resistance Junction to Case	$R_{J-C}$	—	25	—	K/W
Temperature Coefficient of Forward Voltage	$V_f/T$	—	-2	—	mV/

**Notes:**

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $1/2$  is the off-axis angle at which the luminous intensity is 50% of the on-axis value.

**Typical Electrical / Optical Characteristics Curves**

(25 " Ambient Temperature Unless Otherwise Noted)







