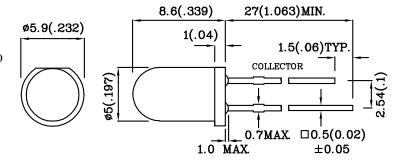


Part Number: XRNI53W PHOTOTRANSISTOR



## **Features**

- •MECHANICALLY AND SPECTRALLY MATCHED TO THE XTNI53W SERIES INFRARED EMITTING LED LAMP.
- WATER CLEAR LENS.



## Notes:

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

## Absolute Maximum Ratings at Ta=25°C

Parameter	Max. Ratings			
Collector-to-Emitter Breakdown Voltage	30V			
Emitter-to-Collector Breakdown Voltage	5V			
Power Dissipation at (or below) 25°C Free Air Temperature	100mW			
Operating / Storage Temperature Range	-40°C To +85°C			
Lead Soldering Temperature (>5mm for 5sec)	260°C			

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Part Number: XRNI53W

PHOTOTRANSISTOR

## Electrical / Optical Characteristics at Ta=25 $^{\circ}$ C

Symbol	Parameter	Min.	Тур.	Max.	Unit	Test Condiction
VBR CEO	Collector-to-Emitter Breakdown Voltage	30	-	-	V	Ic=100 μ A Ee=0mW/cm²
VBR ECO	Emitter-to-Collector Breakdown Voltage	5	•	-	V	IE=100 μ A Ee=0mW/cm <sup>2</sup>
VCE(SAT)	Collector-to-Emitter Saturation Voltage	-	-	0.8	V	Ic=2mA Ee=20mW/cm²
ICEO	Collector Dark Current	-	-	100	nA	VCE=10V Ee=0mW/cm <sup>2</sup>
TR	Rise Time (10% to 90%)	-	3	-	μѕ	$V_{\rm CE}=5V$ $I_{\rm C}=1$ mA $R_{\rm L}=1$ K $\Omega$
$\mathrm{T}_{\mathrm{F}}$	Fall Time (90% to 10%)	-	3	-	μѕ	
I(ON)	On State Collector Current	0.1	0.4	-	mA	V <sub>CE</sub> =5V Ee=0mW/cm2 λ=940nm

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