imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





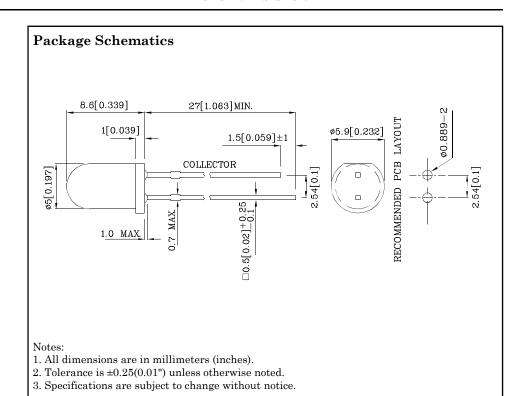
Part Number: XRNI12W

PHOTOTRANSISTOR

Features

- Radial / Through hole package
- \bullet Reliable & robust
- Low power consumption
- Available on tape and reel
- \bullet RoHS Compliant





Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Min.	Тур.	Max.	Unit	Test Condiction
VBR CEO	Collector-to-Emitter Breakdown Voltage	30			V	$\begin{array}{c} Ic{=}100\mu A\\ Ee{=}0mW/cm^2 \end{array}$
VBR ECO	Emitter-to-Collector Breakdown Voltage	5			V	IE=100µA Ee=0mW/cm ²
VCE(SAT)	Collector-to-Emitter Saturation Voltage			0.8	V	IC=2mA Ee=20mW/cm ²
ICEO	Collector Dark Current			100	nA	VCE=10V Ee=0mW/cm ²
TR	Rise Time (10% to 90%)		15		μs	Vce=5V Ic=1mA RL=1KΩ
$\mathrm{T}\mathrm{F}$	Fall Time (90% to 10%)		15		μs	
I(ON)	On State Collector Current	0.5	2.5		mA	$\begin{array}{c} V{\rm CE}{=}5V\\ {\rm Ee}{=}1mW/cm^2\\ \lambda{=}940nm \end{array}$

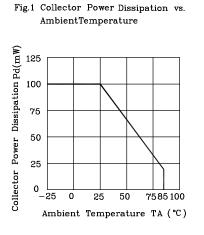
Absolute Maximum Ratings at TA=25°C

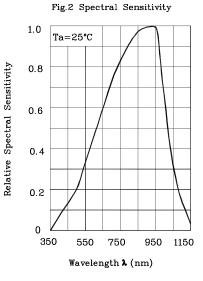
Parameter	Maximum Ratings		
Collector-to-Emitter Voltage	30V		
Emitter-to-Collector Voltage	5V		
Power Dissipation at (or below) 25°C Free Air Temperature	100mW		
Operating / Storage Temperature Range	-40°C To +85°C		
Lead Solder Temperature (>5mm for 5sec)	260°C		

XDSA8078 V6 Layout: Maggie L.



Typical Electro-Optical Characteristics Curves





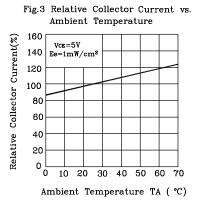
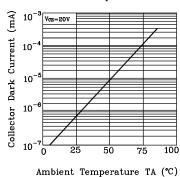
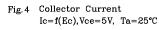
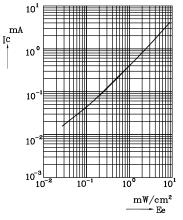
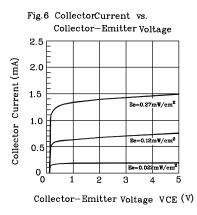


Fig.5 Collector Dark Current vs. AmbientTemperature



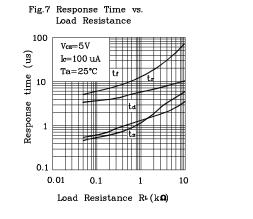




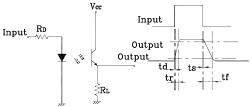


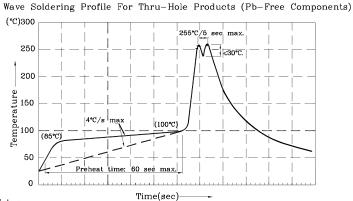






Test Circuit for Response Time





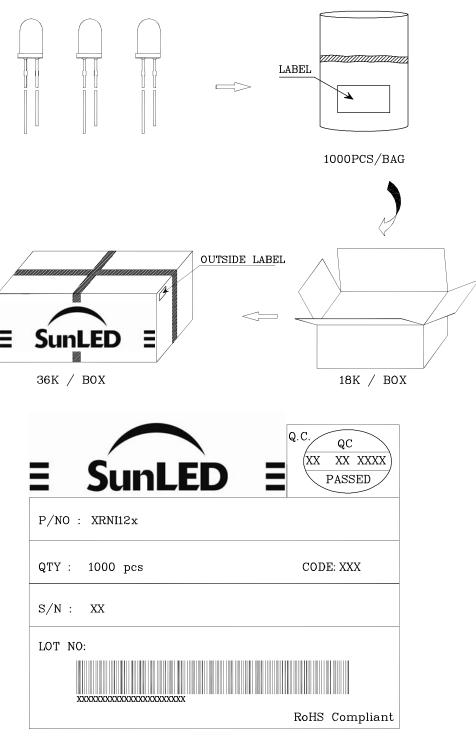
Notes:

Notes:
1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec (5 sec max).

(b sec max).
3.Do not apply stress to the epoxy resin while the temperature is above 85°C.
4.Fixtures should not incur stress on the component when mounting and during soldering process.
5.SAC 305 solder alloy is recommended.
6.No more than one wave soldering pass.



PACKING & LABEL SPECIFICATIONS



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- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
- 2. Contents within this document are subject to improvement and enhancement changes without notice.
- 3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
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Dec 18,2013