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!



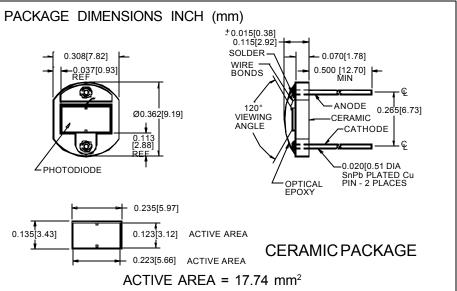
Contact us

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



PHOTONIC si <u>DETECTORS INC.</u>

Silicon Photodiode, U.V. Enhanced Photovoltaic Type PDU-V107



FEATURES

- Low noise
- U.V. enhanced
- High shunt resistance
- High response

The **PDU-V107** is a silicon, PIN planar diffused, U.V. enhanced photodiode. Ideal for low noise photovoltaic applications. Packaged on a two lead ceramic substrate with a clear U.V. epoxy glob top.

APPLICATIONS

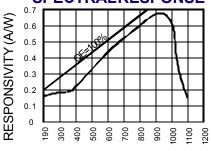
- U.V. exposure meter
- Water purification
- Fluorescence
- U.V. A & B meters

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

DESCRIPTION

SYMBOL	PARAMETER MIN		MAX	UNITS	
Vbr	Reverse Voltage		75	V	
T _{STG}	Storage Temperature	-40	+100	°C	
To	Operating Temperature Range	-40	+90	°C	
Ts	Soldering Temperature*		+240	°C	
Ι	Light Current		500	mA	





WAVELENGTH(nm)

*1/16 inch from case for 3 secs max

ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	MIN	TYP	MAX	UNITS
S_	Short Circuit Current	H = 100 fc, 2850 K	180	200		μ A
I _D	Dark Current	H = 0, V _R = 10 V		400	800	pА
Rsh	Shunt Resistance	H = 0, V _R = 10 mV	100	500		MΩ
TC RSH	RSH Temp. Coefficient	H = 0, V _R = 10 mV		-8		% / °C
CJ	Junction Capacitance	H = 0, V _R = 0 V**		2000		pF
λrange	Spectral Application Range	Spot Scan	250		1100	nm
λρ	Spectral Response - Peak	Spot Scan		850		nm
Vbr	Breakdown Voltage	I = 10 μA	30	50		V
NEP	Noise Equivalent Power	V _R = 10 mV @ Peak		2.0x10 ⁻¹³		W/ √ Hz
tr	Response Time	$RL = 1 K\Omega V_R = 0 V$		1000		nS

Information in this technical data sheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.**f=1MHz [FORM NO. 100-PDU-V107 REV A]