

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!



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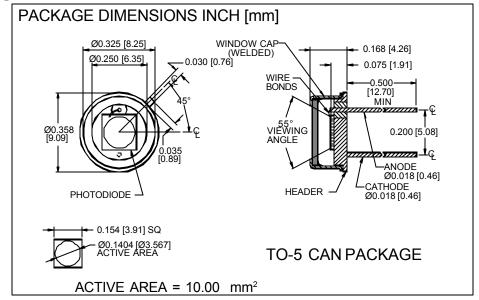




# **PHOTONIC DETECTORS INC.**

### Silicon Photodiode, U.V. Enhanced Photovoltaic Type PDU-V106-Q





#### **FEATURES**

- Low noise
- U.V. enhanced
- High shunt resistance
- Quartz window

#### **DESCRIPTION**

The PDU-V106-Q is a silicon, PIN planar diffused, U.V. enhanced photodiode. Ideal for low noise photovoltaic applications. Packaged in a TO-5 metal can with a flat quartz window.

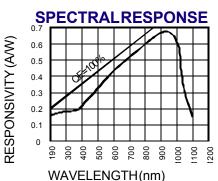
#### **APPLICATIONS**

- Spectrometers
- Fluorescent analysers
- U.V. meters
- Colorimeter

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
VBR	Reverse Voltage		100	V
$T_{STG}$	Storage Temperature	-55	+150	∘C
To	Operating Temperature Range	-40	+125	∘C
Ts	Soldering Temperature*		+240	∘C
١ <sub>L</sub>	Light Current		500	mA

<sup>\*1/16</sup> inch from case for 3 secs max



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

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SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS		
Isc	Short Circuit Current	H = 100 fc, 2850 K	100	125		$\mu$ A		
ΙD	Dark Current	$H = 0, V_R = 10 \text{ mV}$		5	50	pA		
RsH	Shunt Resistance	$H = 0, V_R = 10 \text{ mV}$	.2	2		GΩ		
TC Rsh	RSH Temp. Coefficient	$H = 0, V_R = 10 \text{ mV}$		-8		%/℃		
Сл	Junction Capacitance	$H = 0, V_R = 0 V^{**}$		1200		рF		
λrange	Spectral Application Range	Spot Scan	190		1100	nm		
R	Responsivity	$V_R$ = 0 V, $\lambda$ = 254 nm	.12	.18		A/W		
V <sub>BR</sub>	Breakdown Voltage	I = 10 μA	5	10		V		
NEP	Noise Equivalent Power	V <sub>R</sub> = 10 V @ Peak		1.0x10 <sup>-14</sup>		W/ √ Hz		
tr	Response Time	$RL = 1 K\Omega V_{p} = 0 V$		800		nS		