

### FEATURES

- Low noise
- UV enhanced
- High shunt resistance
- High response

### DESCRIPTION

The **PDU-V114** is a UV enhanced silicon PIN packaged in a hermetic TO-5 metal package.

### APPLICATIONS

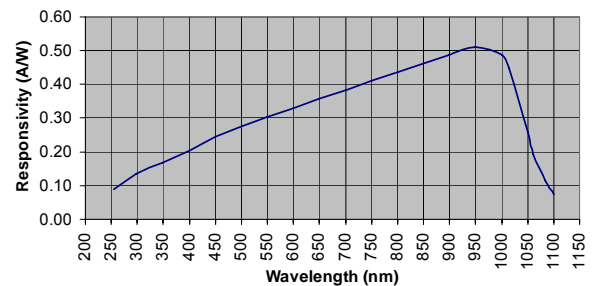
- Instrumentation
- Industrial
- Medical

### ABSOLUTE MAXIMUM RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V <sub>BR</sub>	Reverse Voltage		75	V
T <sub>STG</sub>	Storage Temperature	-55	+150	°C
T <sub>O</sub>	Operating Temperature	-40	+125	°C
T <sub>S</sub>	Soldering Temperature*		+240	°C

\* 1/16 inch from case for 3 seconds max.

### SPECTRAL RESPONSE



### ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>D</sub>	Dark Current	V <sub>R</sub> = 10mV		10	50	pA
R <sub>SH</sub>	Shunt Resistance	V <sub>R</sub> = 10 mV	200	1000		MΩ
C <sub>J</sub>	Junction Capacitance	V <sub>R</sub> = 0 V, f = 1 MHz		2000		pF
λ range	Spectral Application Range	Spot Scan	350		1100	nm
R	Responsivity	λ = 254 nm V, V <sub>R</sub> = 0 V	0.07	0.09		
V <sub>BR</sub>	Breakdown Voltage	I = 10 μA	30	50		V
NEP	Noise Equivalent Power	V <sub>R</sub> = 0V @ λ = Peak		2 x 10 <sup>-14</sup>		W/√Hz
t <sub>r</sub>	Response Time**	RL = 50 Ω, V <sub>R</sub> = 0 V		190		nS
		RL = 50 Ω, V <sub>R</sub> = 10 V		13		

\*\*Response time of 10% to 90% is specified at 660nm wavelength light.

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.