

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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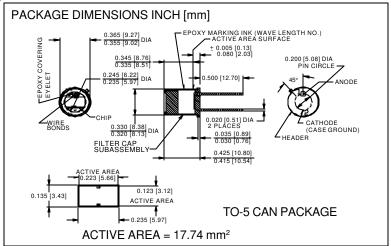






PHOTONIC Silicon Photodiode, Filter Combination Photovoltaic **DETECTORS INC.** (center wavelength 850 nm) Type PDI-V485





FEATURES

- High transmission
- 10⁻⁴ rejection
- +/- 2nm CWL

DESCRIPTION

The **PDI-V485** is a silicon, PIN planar diffused, photodiode with a narrow band interferance filter. The detector filter combination has a narrow 10 nm half bandwidth designed for low noise photovoltaic applica-

tions. Packaged in a TO-5 metal can.

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

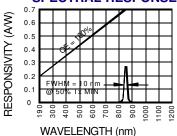
SYMBOL	PARAMETER	MIN	MAX	UNITS	
V_{BR}	Reverse Voltage		100	V	
T _{STG}	Storage Temperature	-20	+85	°C	
То	Operating Temperature Range	-15	+70	°C	
Ts	Soldering Temperature*		+240	°C	
I	Light Current		0.5	mA	

^{*1/16} inch from case for 3 secs max

APPLICATIONS

- Spectrophotometry
- Chemistry instrumentation
- Liquid chromatography

SPECTRAL RESPONSE



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

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SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS			
lsc	Short Circuit Current***	H = 100 fc, 2850 K	150	200		μΑ			
ΙD	Dark Current	H = 0, V _R = 10 mV		10	50	рА			
RsH	Shunt Resistance	$H = 0, V_R = 10 \text{ mV}$.20	2		GΩ			
TC RsH	Rsн Temp. Coefficient	H = 0, V _R = 10 mV		-8		%/℃			
Cı	Junction Capacitance	H = 0, V _R = 10 V**		1700		pF			
CWL	Center Wavelength	(CWL, λ o) +/- 2 nm		850		nm			
HBW	Half Bandwidth	(FWHM)		10		nm			
V _{BR}	Breakdown Voltage	I = 10 µuA	50	75		V			
N EP	Noise Equivalent Power	V _R = 10 mV @ Peak		9x10 ⁻¹⁵		W/ √ Hz			
tr	Response Time	RL = 1 KΩ V _R = 10 V		1.0		μS			

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 = 1 MHz, ***without filter [FORM NO. 100-PDI-V485 REV B]