

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

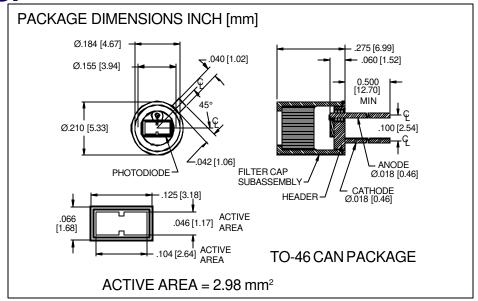






PHOTONICSilicon Photodiode, Filter Combination Photovoltaic **DETECTORS INC.** (center wavelength 950 nm) Type PDI-V495-46





RESPONSIVITY (A/W)

FEATURES

- 950 nm CWL
- 65 nm FWHM
- Large active area
- Matched to 940 nm LEDs

DESCRIPTION

The **PDI-V495-46** is a silicon, PIN planar diffused, photodiode with a wide band interferance filter. The detector filter combination has a wide 65 nm half bandwidth designed for low noise photovoltaic applications. Packaged in a TO-46 metal can.

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

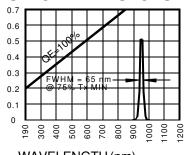
SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		75	V
T _{STG}	Storage Temperature	-20	+85	°C
To	Operating Temperature Range	-15	+70	°C
Ts	Soldering Temperature*		+240	°C
IL	Light Current		0.5	mA

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

APPLICATIONS

- Spectrophotometry
- Chemistry instrumentation
- I.R. detector
- GaAs LED sensor

SPECTRAL RESPONSE



WAVELENGTH (nm)

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

		,				
SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current***	H = 100 fc, 2850 K	35	40		μΑ
ΙD	Dark Current	H = 0, V _R = 10 V		150	300	pA
Rsh	Shunt Resistance	H = 0, V _R = 10 mV	1.0	6		GΩ
TC Rsh	Rsн Temp. Coefficient	H = 0, V _R = 10 mV		-8		%/℃
Сл	Junction Capacitance	H = 0, V _R = 0 V**		340		pF
CWL	Center Wavelength	(CWL, λ o) +/- 2 nm		950		nm
HBW	Half Bandwidth	(FWHM)		65		nm
V _{BR}	Breakdown Voltage	I = 10 µuA	30	50		V
NEP	Noise Equivalent Power	V _R = 10 mV @ Peak		5x10 ⁻¹⁴		W/√ _{Hz}
tr	Response Time	RL = 1 KΩ V _R = 0 V		450		nS