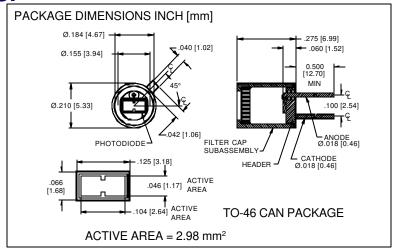
PHOTONIC Silicon Photodiode, Filter Combination Photovoltaic **DETECTORS INC.** (photopic response) Type PDV-V400-46





FEATURES

- Large active area
- High transmission
- · Low noise

DESCRIPTION

The **PDV-V400-46** is a silicon, PIN planar diffused, photodiode with a photopic response filter. The detector filter combination has a wide bandwidth designed to simulate the spectral response of the human eye.

packaged in a TO-46 metal can. ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

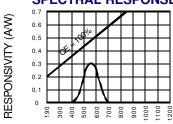
SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		75	V
T _{stg}	Storage Temperature	-20	+85	°C
То	Operating Temperature Range	-15	+70	°C
Ts	Soldering Temperature*		+240	°C
I	Light Current		0.5	mA

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

APPLICATIONS

- Photometry
- Radiometry
- Film color processing

SPECTRAL RESPONSE



WAVELENGTH (nm)

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

	17.1-25 C different field (17.1-25 C different field field different field dif								
SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS			
lsc	Short Circuit Current***	H = 100 fc, 2850 K	35	40		μΑ			
ΙD	Dark Current	H = 0, V _R = 10 V		150	300	pА			
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		%/℃			
Cı	Junction Capacitance	H = 0, V _R = 0 V**		340		pF			
CWL	Center Wavelength	(CWL, λ o) +/- 2 nm		525		nm			
HBW	Half Bandwidth	(FWHM)		150		nm			
V _{BR}	Breakdown Voltage	I = 10 µuA	30	50		V			
N EP	Noise Equivalent Power	V _R = 10 mV @ Peak		5x10 ⁻¹⁴		W/ √Hz			
tr	Response Time	RL = 1 KΩ V _R = 0 V		450		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 = 1 MHz, ***without filter [FORM NO. 100-PDV-V400-46 REV N/C]