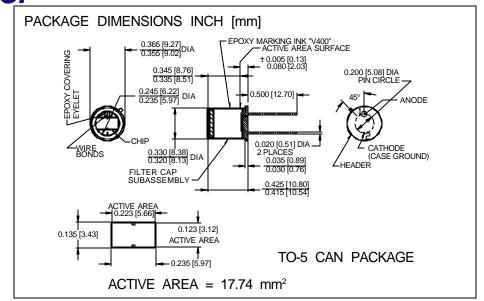
PHOTONIC Silicon Photodiode, Filter Combination Photovoltaic **DETECTORS INC.** (photopic response) Type PDV-V400





FEATURES

- Large active area
- High transmission
- Low noise

DESCRIPTION

The **PDV-V400** 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-5 metal can.

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

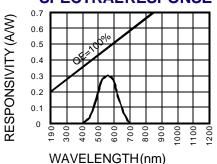
SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		100	V
T_{STG}	Storage Temperature	-20	+85	⊙C
То	Operating Temperature Range	-15	+70	⊙C
Ts	Soldering Temperature*		+240	∘C
I	Light Current		0.5	mA

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

APPLICATIONS

- Photometry
- Radiometry
- Film color processing

SPECTRALRESPONSE



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

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current***	H = 100 fc, 2850 K	150	200		μΑ
ΙD	Dark Current	H = 0, V _R = 10 mV		10	50	pA
RsH	Shunt Resistance	H = 0, V _R = 10 mV	.20	2		GΩ
TC Rsh	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8		%/℃
CJ	Junction Capacitance	H = 0, V _R = 10 V**		1700		рF
CWL	Center Wavelength	(CWL, λ o) +/- 2 nm		525		nm
HBW	Half Bandwidth	(FWHM)		150		nm
V _{BR}	Breakdown Voltage	I = 10 μA	50	75		V
NEP	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 [FORMNO.100-PDV-V400 REV C]