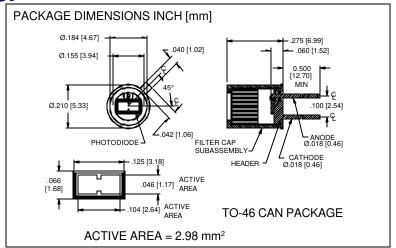
PHOTONIC Silicon Photodiode, Filter Combination Photovoltaic **DETECTORS INC.** (center wavelength 660 nm) Type PDR-V466-46





RESPONSIVITY (A/W)

FEATURES

- 660 nm CWL
- 10 nm FWHM
- · Large active area

DESCRIPTION

The **PDR-V466-46** 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 applications. Parkland in a TO 46 metal age.

tions. Packaged in a TO-46 metal can.

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

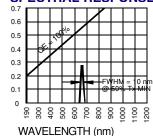
SYMBOL	PARAMETER	MIN	MAX	UNITS
V_{BR}	Reverse Voltage		75	V
T _{stg}	Storage Temperature	-20	+85	°C
То	Operating Temperature Range	-15	+70	°C
Ts	Soldering Temperature*		+240	°C
I _L	Light Current		0.5	mA

^{*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	35	40		μΑ			
ΙD	Dark Current	H = 0, V _R = 10 V		150	300	рА			
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		660		nm			
HBW	Half Bandwidth	(FWHM)		10		nm			
VBR	Breakdown Voltage	I = 10 // A	30	50		V			
N EP	Noise Equivalent Power	V _R = 10 mV @ Peak		5x10 ⁻¹⁴		W/ V 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-PDR-V466-46 REV N/C]