PHOTONIC Silicon Photodiode, Filter Combination Photovoltaic DETECTORS INC. (center wavelength 680 nm) Type PDR-V468-46

Ø.184 [4.67]

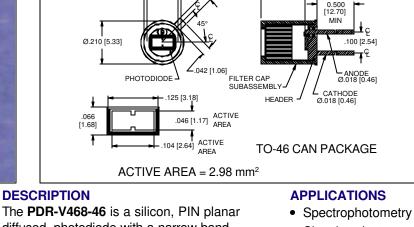
Ø.155 [3.94]

PACKAGE DIMENSIONS INCH [mm]



FEATURES

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



.040 [1.02]

275 [6.99]

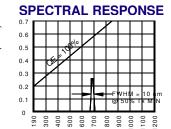
.060 [1.52]

- Chemistry instrumentation
- Liquid chromatography

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. Packaged in a TO-46 metal can.

ABSOLUTE MAXIMUM B

	SYMBOL	PARAMETER	MIN	MAX	UNITS	(A/W)				
	VBR	VBR Reverse Voltage		75	V	۲ (A				
	T _{stg}	Storage Temperature	-20	+85	°C	ΞN				
To C		Operating Temperature Range	-15	+70	°C	INISNO				
	Ts Soldering Temperature*			+240	°C	SPC				
	I _L	Light Current		0.5	mA	H				



WAVELENGTH (nm)

*1/16 inch from case for 3 secs max

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
lsc	Short Circuit Current***	H = 100 fc, 2850 K	35	40		μA
ΙD	Dark Current	H = 0, V _R = 10 V		150	300	pА
Rsн	Shunt Resistance	H = 0, V _R = 10 mV	1.0	6		GΩ
TC Rsh	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8		% / °C
CJ	Junction Capacitance	H = 0, V _R = 0 V**		340		pF
CWL	Center Wavelength	(CWL, λ o) +/- 2 nm		680		nm
HBW	Half Bandwidth	(FWHM)		10		nm
VBR	Breakdown Voltage	I = 10 µµA	30	50		V
N EP	Noise Equivalent Power	V _R = 10 mV @ Peak		5x10 ⁻¹⁴		W/ V Hz
tr	Response Time	$RL = 1 K\Omega V_R = 0 V$		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 IFORM NO. 100-PDR-V468-46 REV N/C [FORM NO. 100-PDR-V468-46 REV N/C]