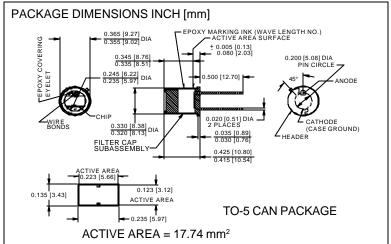
PHOTONIC Silicon Photodiode, Filter Combination Photovoltaic DETECTORS INC. 600 nm (red color) Type PDV-V403





FEATURES

- 600 nm CWL
- 65 nm FWHM
- · Low noise

DESCRIPTION: The **PDV-V403** is a silicon,

PIN planardiffused, photodiode with a red color 600 nm +/- 2 nm CWL wide band interferance filter and a 65 nm half bandwidth. Ideal for photometry and radiometry measurement applications.

APPLICATIONS

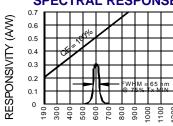
- · Red color matching
- Color meters
- Film processing

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	
١ _L	Light Current		0.5	mA	

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

SPECTRAL RESPONSE



WAVELENGTH (nm)

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	150	200		μΑ			
ΙD	Dark Current	H = 0, V _R = 10 mV		10	50	рА			
RsH	Shunt Resistance	$H = 0$, $V_R = 10 \text{ mV}$.20	2		GΩ			
TC Rsh	Rsн Temp. Coefficient	H = 0, V _R = 10 mV		-8		%/℃			
Cı	Junction Capacitance	H = 0, V _R = 10 V**		1700		pF			
CWL	Center Wavelength	(CWL, λ o) +/- 2 nm		600		nm			
HBW	Half Bandwidth	(FWHM)		65		nm			
V _{BR}	Breakdown Voltage	I = 10 µA	50	75		V			
N EP	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 [FORM NO. 100-PDV-V403 REV A]