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Advanced Photonix, Inc. PDV-V419

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Advanced Photonix, Inc. : Excellent Integrated System Limited

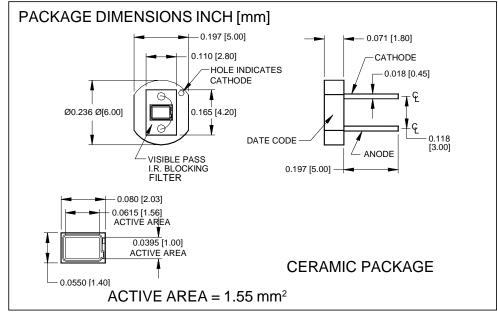
Datasheet of PDV-V419 - PHOTODIODE PIN 1.55MM SQ CERAMIC

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DETECTORS INC.

Silicon Photodiode, Visible Light Detector Type PDV-V419





FEATURES

- Visible response
- Low dark current
- Good linearity
- Low noise

DESCRIPTION

The **PDV-V419** is a silicon PIN photodiode, with a built in visible pass, I.R. blocking optical filter. Housed in a black ceramic package with two leads. Designed for photovoltaic operation with 0 volt bias.

APPLICATIONS

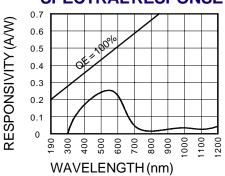
- Camera exposure meter
- Light meters
- Visible detector

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		10	V
T _{STG}	Storage Temperature	-20	+80	∘C
То	Operating Temperature Range	-20	+60	∘C
Ts	Soldering Temperature*		+240	∘C
IL	Light Current		0.5	mA

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

SPECTRAL RESPONSE



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	2	2.8		μ A
ΙD	Dark Current	$H = 0$, $V_R = 10 V$		75	150	pА
Rsh	Shunt Resistance	H = 0, V _R = 10 mV	1.5	2.0		GΩ
TC Rsh	Rsн Temp. Coefficient	$H = 0$, $V_R = 10 \text{ mV}$		-8		%/°C
Cı	Junction Capacitance	$H = 0$, $V_R = 0 V^{**}$		500	600	pF
λrange	Spectral Application Range	Spot Scan	320		730	nm
λр	Spectral Response - Peak	Spot Scan		560		nm
VBR	Breakdown Voltage	I = 10 μA	10	15		V
NEP	Noise Equivalent Power	V _R = 10 V @ Peak		3x10 ⁻¹⁴		W/ √ Hz
tr	Response Time	RL = 1 KΩ V _R = 10 V		500		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