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Advanced Photonix, Inc. PDU-V110Q

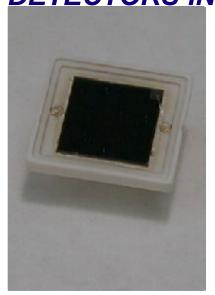
For any questions, you can email us directly: sales@integrated-circuit.com

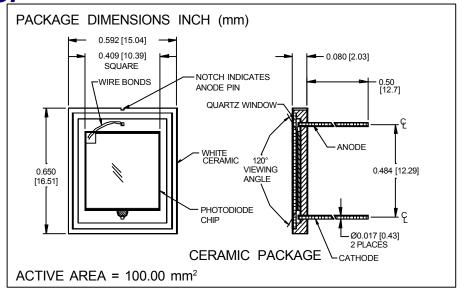
Distributor of Advanced Photonix, Inc.: Excellent Integrated System Limited

Datasheet of PDU-V110Q - PHOTODIODE UV W/QW 100MM CERAMIC

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

PHOTONIC Silicon Photodiode, U.V. Enhanced Photovoltaic Type PDU-V110-Q





FEATURES

- Low noise
- U.V. enhanced
- High shunt resistance
- Quartz window

DESCRIPTION

The **PDU-V110-Q** is a silicon, PIN planar diffused, U.V. enhanced photodiode. Ideal for low noise photovoltaic applications. Packaged in low profile ceramic substrate with a quartz window.

APPLICATIONS

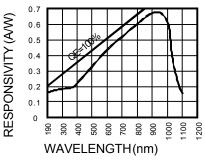
- Spectometers
- Fluorescent analysers
- U.V. meters
- Colorimeters

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	+80	∞
To	Operating Temperature Range	-20	+60	∘C
Ts	Soldering Temperature*		+220	∘C
IL	Light Current		500	mA

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

SPECTRALRESPONSE



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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current	H = 100 fc, 2850 K	0.9	1.2		m A
ΙD	Dark Current	$H = 0, V_R = 10 \text{ mV}$		200	333	pА
RsH	Shunt Resistance	$H = 0, V_R = 10 \text{ mV}$	30	50		MΩ
TC Rsh	Rsн Temp. Coefficient	$H = 0, V_R = 10 \text{ mV}$		-8		%/℃
C₁	Junction Capacitance	H = 0, V _R = 0 V**		10,000	12,000	рF
λrange	Spectral Application Range	Spot Scan	190		1100	nm
R	Responsivity	V_R = 0 V, λ = 254 nm	.12	.18		A/W
V _{BR}	Breakdown Voltage	I = 10 μA	5	10		V
NEP	Noise Equivalent Power	V _R = 10 mV @ Peak		2.0x10 ⁻¹⁴		W/ √ Hz
tr	Response Time	RL = 1 KΩ V _R = 0 V		2000		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