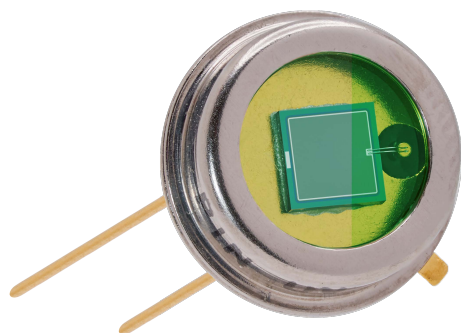


PDV-C406

8mm² Eye Response Detector



FEATURES

- Wide view angle
- Human eye response
- Low noise, low capacitance
- Hermetic package

DESCRIPTION

The **PDV-C406** is an 8mm² active area silicon, PIN photodiode detector filter combination with a wide bandwidth designed to simulate the spectral response of the human eye. Packaged in a hermetic TO-5 can.

APPLICATIONS

- Photometry
- Radiometry
- Film color processing

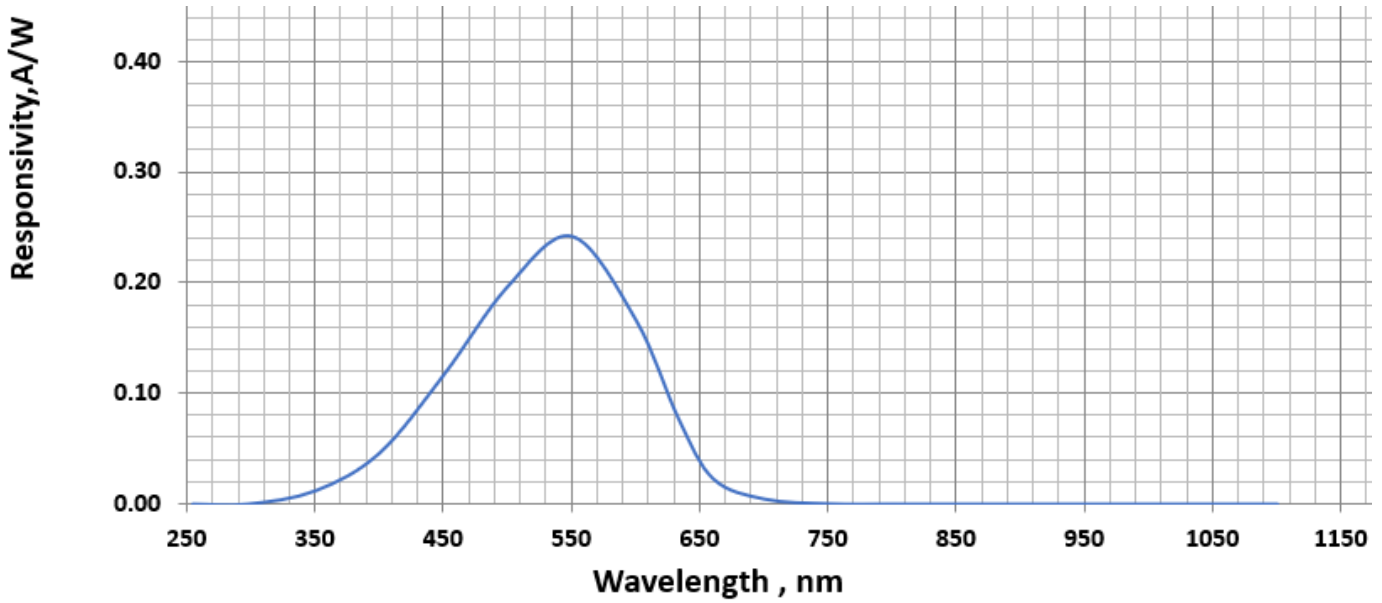
> Absolute Maximum Ratings

Part No.	Wavelength Range [nm]	Reverse Voltage [V]	Operating Temperature [C]	Storage Temperature [C]	Package
PDV-C406	350 to 820	100	-40 to +85	-50 to +100	TO-5

> Electrical and Optical Characteristics

Typical Characteristics (T=23°C unless specified)						
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit
Dark Current	V _R =10V	I _D	-	5	20	nA
Shunt Resistance	V _R =10mV	R _{sh}	150	300	-	MΩ
Junction Capacitance	V _R =10V, f=1MHz	C _J		60	150	pF
Spectral Range	Flooded	Δλ	350	-	820	nm
Responsivity	λ=550nm, V _R =0V	R		0.3	-	A/W
Breakdown Voltage	I=10μA	V _{BR}	75	100	-	V
Noise Equivalent Power	V _R =5V @ λ=550nm	NEP	-	9X10 ⁻¹⁴	-	W/√Hz
Forward Voltage	I _F =10mA	V _F	-	0.75	1.0	V
Response Time	R _L =1kΩ, V _R =10V	t _r		50		nS

> Typical Spectral Response



> Package Dimensions
in inches [mm]

