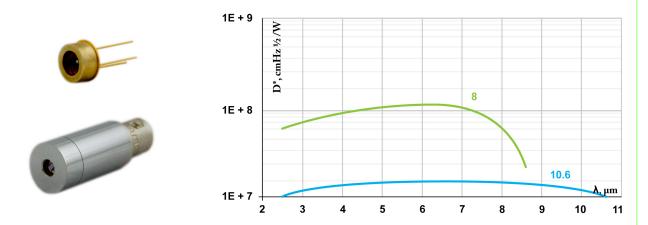
PVM SERIES

8-11 µm IR PHOTOVOLTAIC **MULTIPLE JUNCTION DETECTORS**



FEATURES

- Ambient temperature operation
- No bias required
- Short time constant
- No flicker noise
- Operation from DC to VHF
- Perfect match to fast electronics
- Wide dynamic range
- Large area devices
- Low cost
- Prompt delivery
- Custom design upon request

The PVM- λ_{opt} photodetectors series (λ_{opt} - optimal

DESCRIPTION

wavelength in micrometers) feature IR multiple heterojunction photovoltaic detector. The devices are optimized for the maximum performance at λ_{oot} . Highest performance and stability are achieved by application of variable gap (HgCd)Te semiconductor, optimized doping and sophisticated surface processing. Standard detectors are available without window in TO-39 or BNC based package. Various windows, other packages and connectors are available upon request.

SPECIFICATION		@20°C			
CHARACTERISTICS	UNITS	PVM-8	PVM-10.6		
λ _{opt}	μm	8	10.6		
Detectivity ¹⁾ :					
@λ _{peak}	cmHz ^{1/2} /W	≥1.2×10 ⁸	≥2×10 ⁷		
@λ _{peak} @ λ _{opt}		≥6×10 ⁷	≥1×10 ⁷		
Responsivity - Width Product @ λ _{opt}	A×mm/W	≥0.008	≥0.002		
Time constant	ns	≤4	≤1.5		
Resistance	Ω	50 to 300	20 to 150		
Operating temperature	К	~300			
Acceptance angle, F/#	deg, -	>90, 0.71			

¹⁾ Data sheet states minimum guaranteed D* values for each detector model. Higher performance detectors can be provided upon request.

Turne	Length [mm]									
Туре	0.025	0.05	0.1	0.2	0.25	0.5	1	2	3	4
PVM-8	0	0	Х	х	0	0	Х	Х	Х	Х
PVM-10.6	0	0	Х	Х	0	0	Х	Х	Х	Х

X – standard detectors

O - detectors available on request, parameters may vary from these in data sheets

