



KEY FEATURES

- Single Photon Sensitivity
- InGaAs/InP Geiger-mode APD for 1.5 μm wavelength
- Back Illuminated mesa design device
- Packaged in TO-39 8Pin header
- 2-Stage Thermoelectric cooler

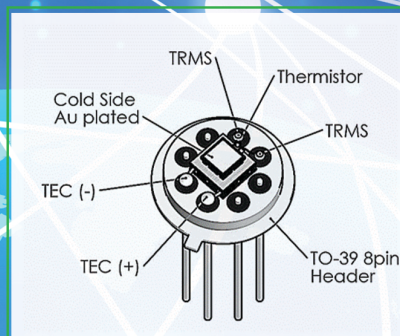


TO-Can Packaged TE-Cooled InGaAs SPAD Detector

SPECIFICATIONS

Parameter	Units	Minimum	Typical	Maximum	Conditions
Wavelength	nm	920		1600	
Pixel Size	μm		25		
Breakdown Voltage (@240K)	V	60	65	75	
Dark Count Rate (DCR)	kHz	25	40	60	4V Overbias
Photon Detection Efficiency (PDE)	%	20	30	35	4V Overbias
Operating Temperature	K	230	240	250	

TO-39 8-PIN Package and PIN Assignments



PIN	Assignment
1	TEC (-)
2	NC
3	APD (Anode)
4	Thermistor
5	Thermistor
6	APD (Cathode)
7	NC
8	TEC (+)