

Features

- Low-capacitance design for faster operation
- 3 mm Ø detection area
- Convenient package options

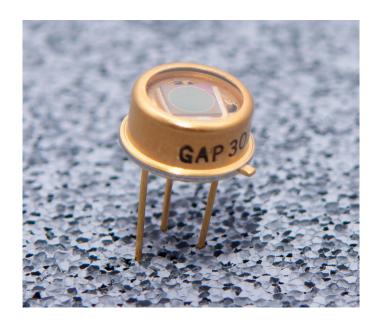
Applications

- Pulsed light detection
- Free space communication
- Optical metrology

Mechanical Characteristics

Parameter	Value
Detector Material	InGaAs
Active Area Diameter	3 mm
Standard Package ¹	TO-5
Standard Window Thickness ¹	$0.025" \pm 0.005"$
Window Index of Refraction ¹	1.49

^{1.} Other packaging and window/lens options are available.

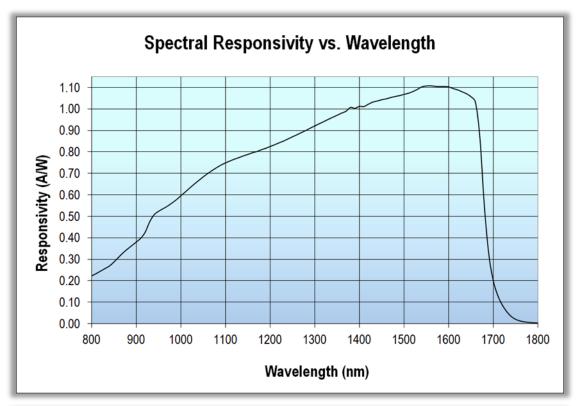


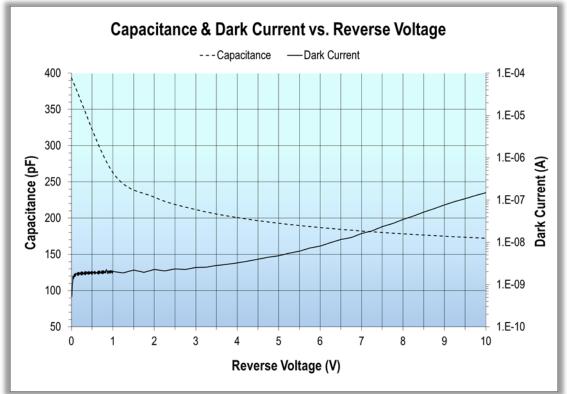
Electro-Optical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Units	Test Conditions (@ 23°C ± 2°C)	
Responsivity	Rλ	0.23	0.30		A/W	λ = 850 nm	
Responsivity	R_{λ}	0.85	0.95		A/W	λ = 1300 nm	
Responsivity	Rλ	0.93	1.0		A/W	λ = 1550 nm	
Shunt Resistance	R_{SH}	6	12		$M\Omega$	$V_R = 10 \text{ mV}$	
Dark Current	I_{D}		3	20	nA	$V_R = 5 V$	
Capacitance	С		500	660	pF	$V_R = 0 V$	
Capacitance	С		200	400	pF	$V_R = 5 V$	
Bandwidth	BW		15		MHz	$R_{LOAD} = 50 \Omega$, $V_R = 5 V$	
Rise Time	t _r		22		ns	$R_{LOAD} = 50 \Omega$, $V_R = 5 V$	
Noise Equivalent Power	NEP		0.06		pW/√ Hz	λ = 1550 nm, V_R = 5 V	
Power Linearity			+10		dBm	V_R = 5 V, tolerance = \pm 0.2 dB	

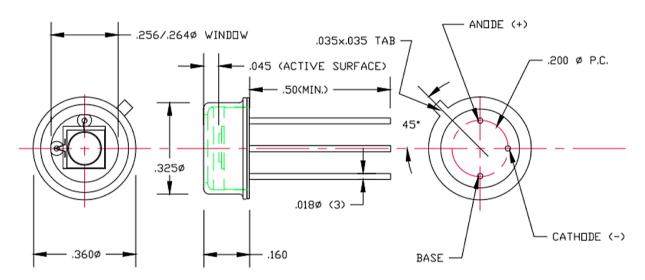
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Units
Forward Current	I _F		10	mA
Reverse Current	I_R		10	mΑ
Reverse Voltage	V_{R}		20	V
Storage Temperature	T_{ST}	-40	125	°C
Operating Temperature	T_OP	-40	85	°C









TOLERANCES:

DIMENSIONS ARE IN INCHES

XX PLACE DEC. \pm .010

XXX PLACE DEC. \pm .005

ANGLES $\pm 0.5^{\circ}$

We have the flexibility to best suit your applications!

GPD offers a variety of standard packaging options, including TO package configurations, chips on ceramic submounts, and BNC-style housings. Various filters and AR coatings can also be added for further enhancement. If you require something outside of our standard options, we are happy to discuss custom designs tailored to your unique specifications.