



200 μ m InGaAs APD (Type 4)

(P/N.: Ain-200-04-01)

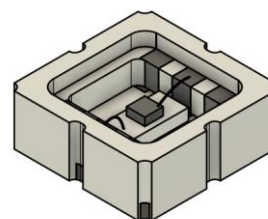
Features

- Low noise (1nA typ.) and gain $M = 10$ InGaAs APDs.
- Small Terminal Capacitance = 2.5 pF at $M = 10$.
- Active Area = 200 μ m.

Applications

- laser range finding

3D view (w/o glass)

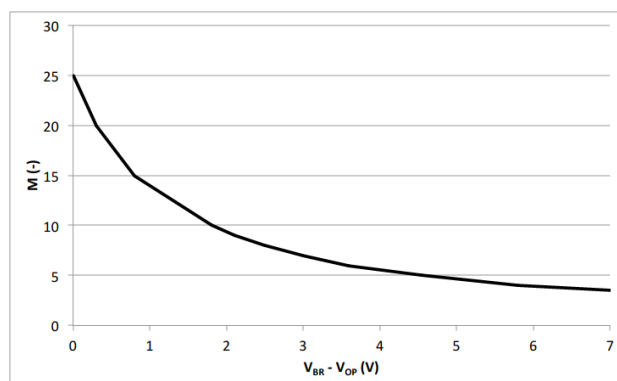
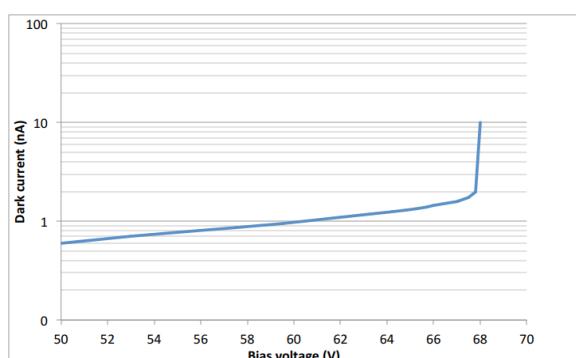
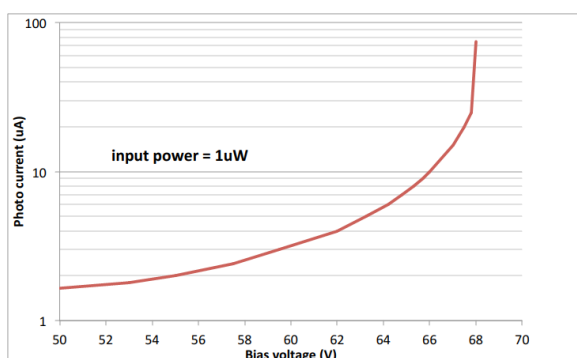


Absolute Maximum Ratings

Parameter	Symbol	Min	Typ	Max	Unit
Forward Current	I_F	-	-	2	mA
Reverse Voltage	V_R	-	-	$0.99 \times V_{BR}$	V
Operating Case Temperature	T_C	-40	-	85	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-40	-	85	$^{\circ}\text{C}$

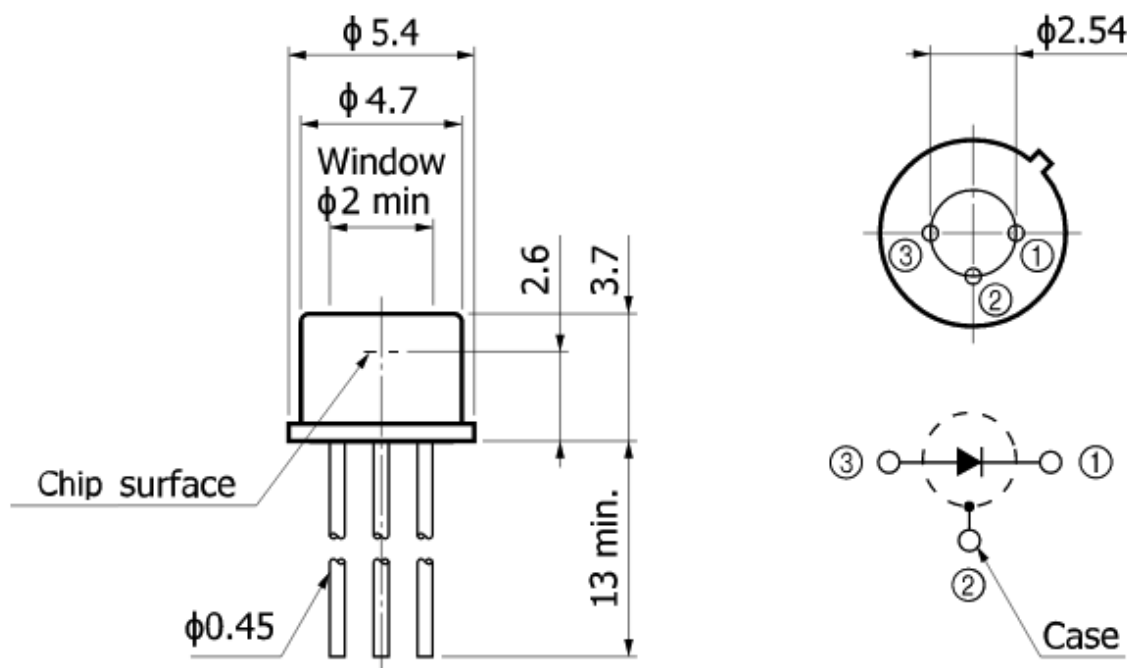
Opto-Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit	Notes
Wavelength Range	λ	950		1650	nm	
Reverse Breakdown Voltage	V_{BR}	50	60	75	V	$I_D = 10\mu\text{A}$
Multiplication Factor	M	-	10	-		$V = V_{BR} - 3\text{V}$
		-	20	-		$V = V_{BR} - 1\text{V}$
Spectral Responsivity	S	0.9	1	-	A/W	1550nm, $M = 1$
Multiplied Dark Current	I_{DM}	-	1	2	nA	$M = 10$
Terminal Capacitance	C_J	-	2.5	4	pF	$M = 10$
Temperature coeff of V_{BR}	$\Delta V/\Delta T$	-	0.1	-	V/ $^{\circ}\text{C}$	$T = 25^{\circ}\text{C}$
Noise Equivalent Power	NEP	-	10.1	-	fW/Hz ^{0.5}	$M = 10$



Dimensional outlines (unit = mm)

TO

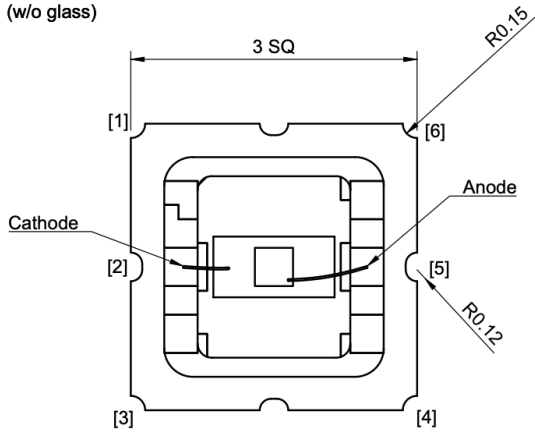


Package can be customized

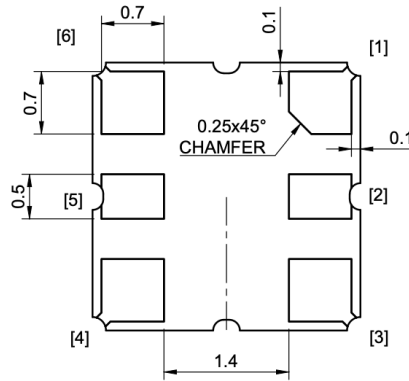


SMD

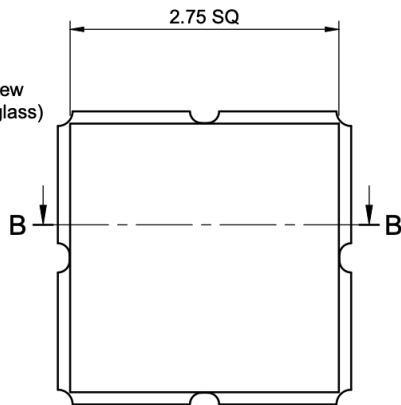
Top view
(w/o glass)



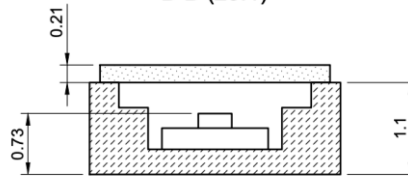
Bottom view



Top view
(with glass)



B-B (25:1)



Package can be customized