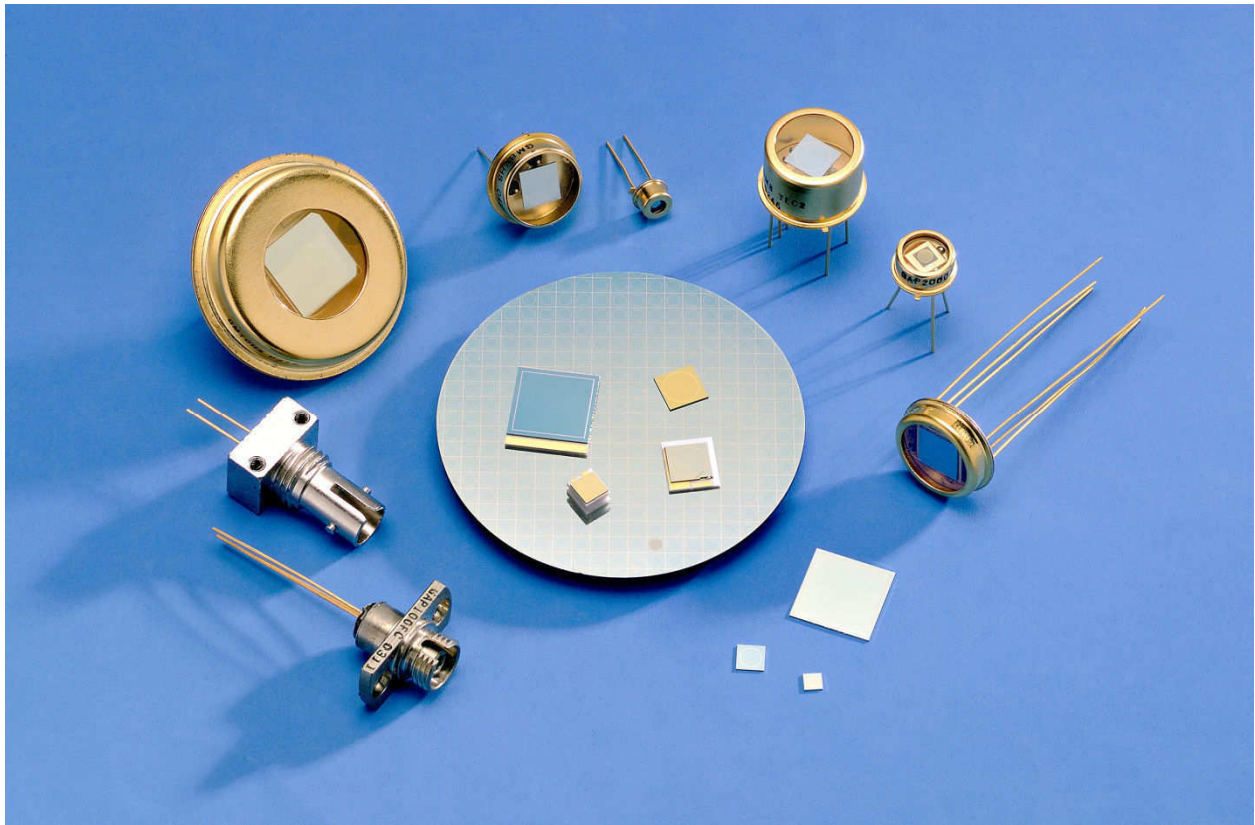


Product Specification

IAV205



GPD Optoelectronics Corp.

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GPD OPTOELECTRONICS CORP
PRODUCT SPECIFICATIONS SHEET

CUSTOMER: ANY	NO. IAV205
CITY:	TYPE: APD PHOTODIODE
CUST. DWG.	PKG. *T0-46 2 lead MAT InGaAs
DEVICE MARKING	
(a) G	
(b) IAV204	
(c) DC	

GROUP A AND/OR PERFORMANCE CHARACTERISTICS

NO.	PARAMETER CONDITIONS @ 23°C ± 2°C	MIN	TYP	MAX	UNITS
1	Wavelength Range	1000		1630	nm
2	Responsivity @ M = 1 1550 nm wavelength	0.85	0.90	0.95	A/W
3	Dark Current @ M=10		8	25	nA
4	Operating voltage, V _r @ M=10	43	55	67	volts
5	Breakdown Voltage, V _{br} (I _d = 10 μA)	50	63	75	volts
6	Active Diameter	200	205	210	μm
7	Capacitance @ M=10		1.8	2.2	pF
8	Temperature coeff. of V _{br} (23°C)		0.075	0.080	V/°C
9	Bandwidth @ M = 5	0.5	1.5	2.0	GHz
10	Bandwidth @ M = 10	1	1.5	2.0	GHz
11	Bandwidth @ M = 20	0.5	1.0	1.5	GHz
12	Excess Noise Factor, F @ M = 10		3.2	3.7	
13	Excess Noise Factor, F @ M = 20		5.5	6.0	
14	Noise Equivalent Power, NEP @ M = 10		0.032	0.1	pW/Hz ^{1/2}
15	<u>ABSOLUTE MAXIMUM CONDITIONS</u>				
16	Operating Temp Range	-40		70	°C
17	Storage Temp Range	-40		85	°C
18	Max Reverse Current			1	mA
19	Max Forward Current	0		10	mA
20	Optical Input (10 nsec pulse)			>200	kW/cm ²
21	Optical Input (average)			0	dBm

SPECIAL REQUIREMENTS

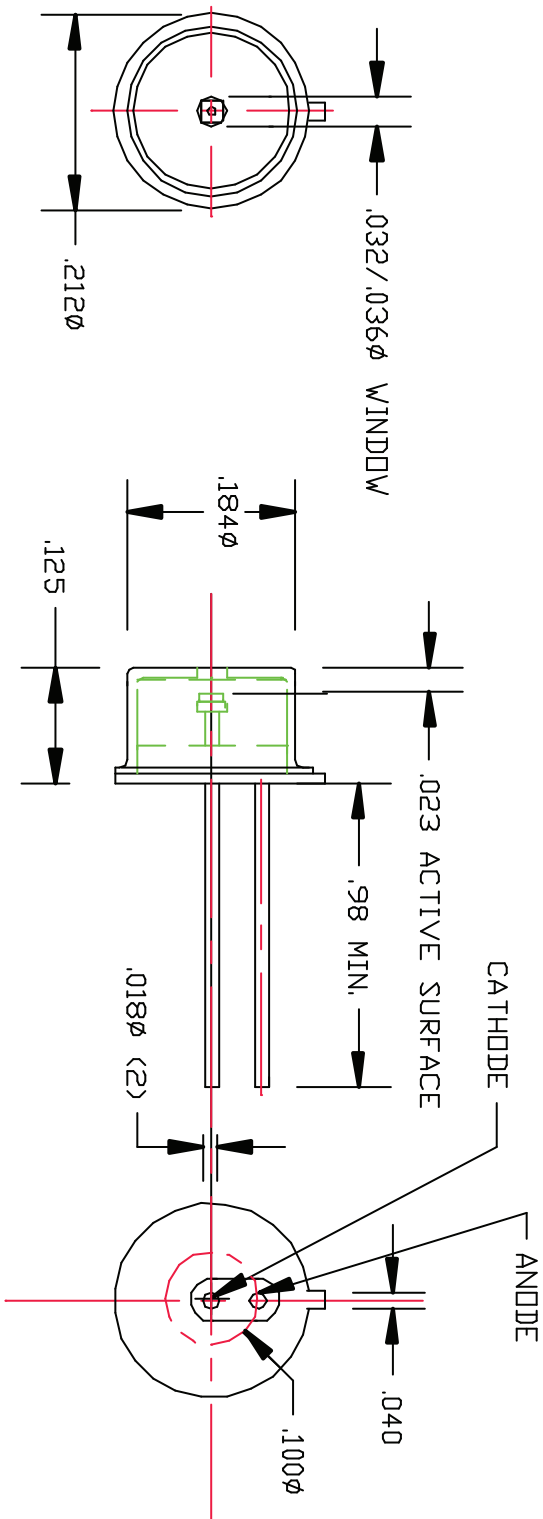
*TO-46 2 lead Modified Package Window Cap Outline Drawing# 13343 200 Micron Dia. Active Area
 *The following data is required for each unit. Breakdown Voltage @ 10μA, Operating Voltage and Dark Current for Gain=10,15and 20, Responsivity (X.XX A/W) @ M=1; 1550 nm. *Test conditions @ 23°C ± 2°C RoHS Compliant

REVISION										APPROVED	
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A-13343

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	ORIGINATE & RELEASE	1/19/10	
	B	E.C.N.#2321	2/1/10	



BOTTOM VIEW

APPROVALS

USED ON	BY	DATE
DRFT.	C.M.W.	1/19/10
CHK.		
ENG.		
PROC.		

TOLERANCES

ALL DIMS. ARE IN INCHES
 XX PLACE DEC.F.010
 XXX PLACE DEC.F.005
 FRACTIONS \pm 1/64
 ANGLES \pm 0.5°

FINISH:

MATERIAL:

GPD OPTOELECTRONICS CORP.
 7 MANOR PARKWAY, SALEM, NH. 03079-2842

OUTLINE IAV205

SIZE	FSGM NO.	DWG NO.	REV
A	53399		B

SCALE	SHEET	1 OF 1
5:1		

MANOR