

InGaAs Photodetector Module

Features

- Small Dark Current
- High Responsivity
- High Accuracy
- High Responsivity

Application

- Monitoring and Meter
- Optical Instruments
- Power Monitoring
- Test equipment



Absolute Maximum Ratings (Tc=25°C .unless otherwise specified)

Parameter	Symbol	Min.	Max.	Unit	Test Condition
Forward Current	I_{FP}	–	10	mA	CW
Reverse Bias	V_R		30	V	CW
Operating Temperature	T_{OP}	–20	+70	°C	–
Storage Temperature	T_{stg}	–40	+100	°C	–
Soldering Temperature/Time	–	260/10		°C/S	–

Specifications (electrical & optical characteristics) T= 25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Wavelength Range	λ	800	–	1700	nm	–
Bandwidth (– 3dBm)	BW	0.8	–	–	GHz @ $\Phi 300$	$R_L = 50 \Omega$
Accuracy		–	–	± 0.25	dB	@25°C
Responsivity	R	–	0.8	–	A / W	$V_R=5V, \lambda =1310nm$
		–	0.08	–		
		–	0.008	–		
		–	0.0008	–		
Capacitance	Ct	–	–	6.0	pF@ $\Phi 300$	$V_R=5V, f = 1 \text{ MHz}$
Input Power Range	P	–70	–	6	dBm	$V_R=5V, R_L = 50 \Omega$
		–60	–	16		
		–50	–	26		
		–40	–	36		

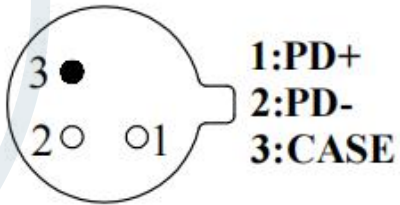


Dark Current	Id	-	-	1.0	nA@Φ300	VR= -5V
		-	-	5.0	nA@Φ1000	VR= -5V
		-	-	8	nA@Φ2000	VR= -5V
Response Time	Tr	-	-	1	ns @ Φ300	RL = 5V, 10~90%
		-	-	5	ns @ Φ1000	
		-	-	20	ns @ Φ2000	
Saturated Optical Power	Ps	6	-	-	dBm	VR= 0V @Φ300
		10	-	-	dBm	VR= 0V @Φ1000
		10	-	-	dBm	VR= 0V @Φ2000

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Pin Assignment



Order Information

- GTA2001 (InGaAs Photo-detector Module 2000um)
- GTA2002 (InGaAs Photo-detector Module 1000um)
- GTA2003 (InGaAs Photo-detector Module 300um)
- GTA2004 (InGaAs Photo-detector Module 5000um)
- GTA2005 (InGaAs Photo-detector Module 10000um)



Please let us know your request details before order.



Customize for you

