AP85-2M112

2.5/3.125Gbps GaAs 1X12 PIN-PD Array

Features

: Two top-side wire bond pads per channel

: AR coated for 850nm

: Low dark current and low capacitance

: Uniform characteristics

: Data rate 2.5 / 3.125Gbps per Channel

: Other configurations available on request

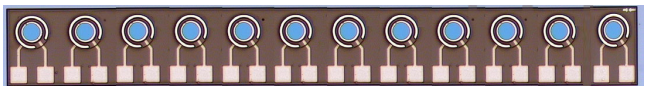
Applications

: High speed Data Communications

: Gigabit Ethernet

: Fiber Channel

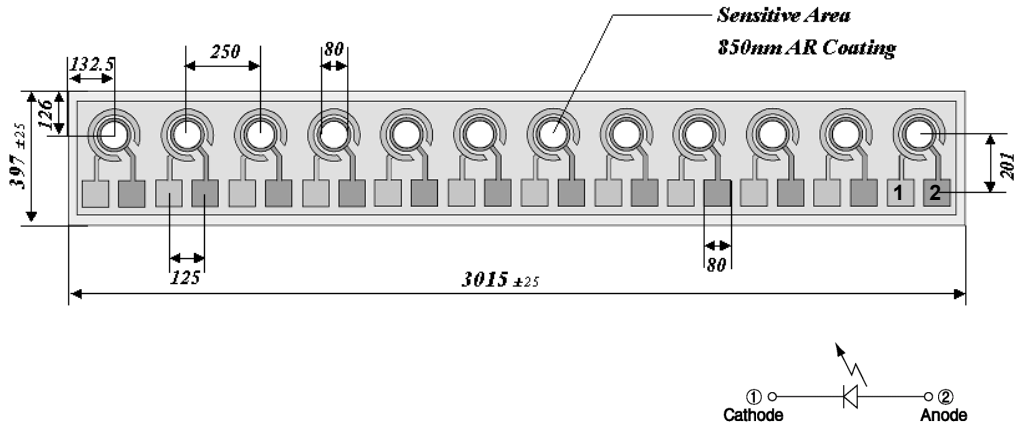
Description



Absolute Maximum Ratings

Parameter	Rating
Forward Current	10mA
Reverse Voltage	40V
Operating Temperature	0 to 85 °C
Storage Temperature	-40 to 100 °C

Dimensions



Unit: μm

Height: 200±15 μm

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Electro-Optics Characteristics (T_a=25°C unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Sensitive Area	D		80		μm	In diameter
Responsivity	R	0.5	0.6		A/W	V_R = 1.6V, λ =850nm
Dark Current	I_D		0.1	1.0	nA	V_R = 1.6V
Breakdown Voltage	V_B	40			V	I_R = 1 μA
Capacitance	C		0.4	0.5	pF	V_R = 1.6V, f=1MHz
Peak Wavelength	λ		850		nm	
Rise and Fall times	t_r/t_f		100/100		ps	V_R =1.6V, 20% ~ 80%
Bandwidth	f_{-3dB}		5.0		GHz	V_R =1.6V

Notes

1. Substrate : Semi-insulating GaAs.
2. Specific active area, pad size and shapes can be provided on customer's request.

* These specifications are subject to change without notice.

NOTICE

The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product

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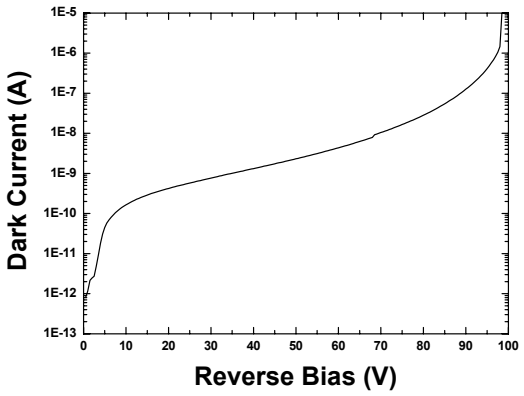
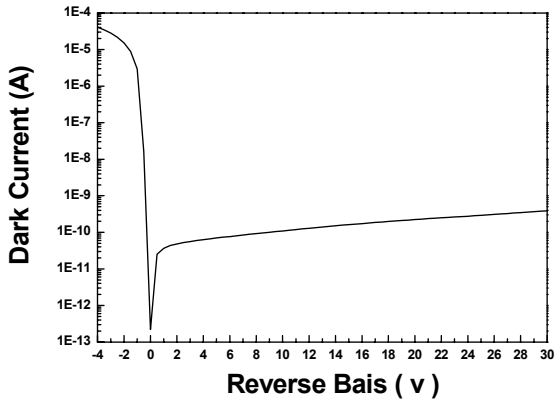
Characteristics Curves

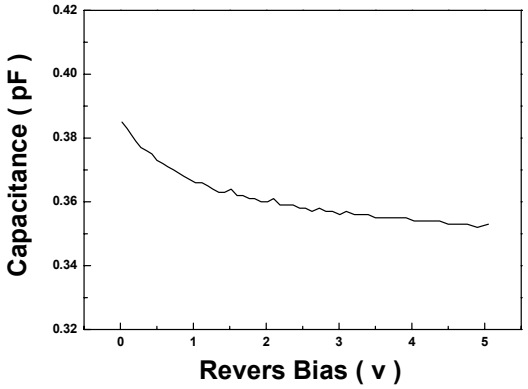
I-V Curve



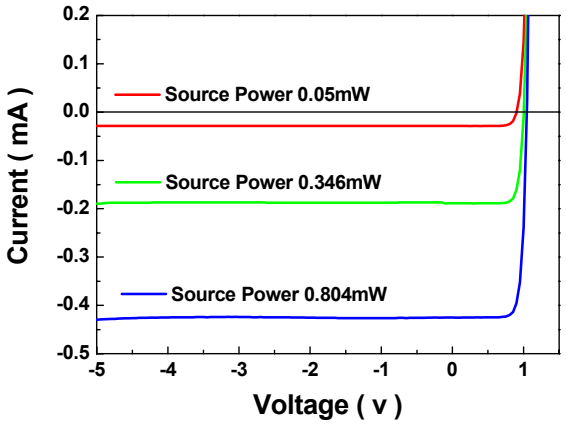
Dark Current



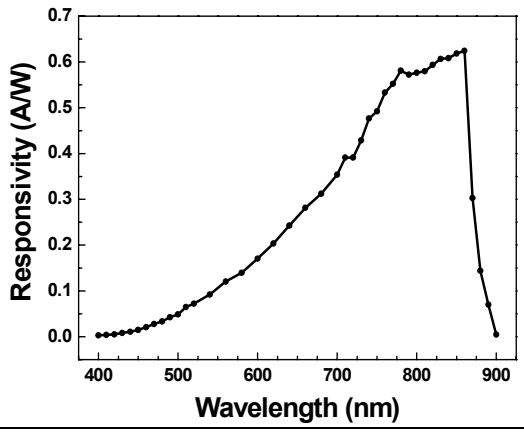
C-V Curve



Responsivity



λ vs Responsivity



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