



2.5Gbps 1260nm~1620nm InGaAs PIN plus AGC Pre-Amplifier Photodiode in TO-46 Package, 5-pin

Part No. PDT-A13P5-2GC3

Features

- 1310nm/1550nm InGaAs PINTIA 5 pin TO
- Industry standard TO-46 package with short cap lens and tab-less
- Optimized for fiber optic application
- Design for long wavelength 2.5Gbps applications
- Photocurrent monitoring available
- Single power supply +3.3V

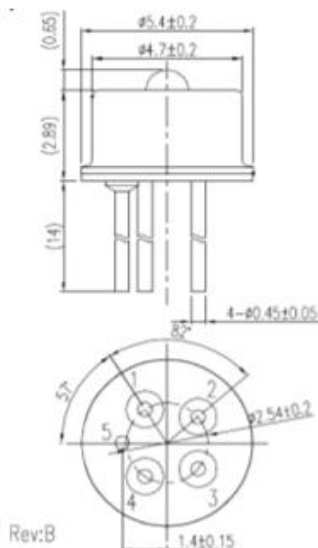


Specifications

Electro-Optical Characteristics (Typical values are at + 3.3V@25°C)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Power Supply	V _{cc}	3.0	3.3	3.6	V	
Supply Current	I _{cc}		48	60	mA	No loads
Differential Responsivity	R _d	14		30	mV/uW	λ=1310nm, R _{load} =100ohm, P=-23dBm
Single Ended Responsivity	R _s	7		15	mV/uW	λ=1310nm, R _{load} =50ohm, P=-23dBm
Small-Signal Bandwidth	BW	1.4			GHz	
Low-Frequency Cut Off	LF		80		kHz	
Rise/Fall Time (20-80%)	tr/tf		170	200	ps	P=-23dBm, λ=1310nm
Saturation Power	P _{sat}	0			dBm	
Single Ended Output Impedance	R _o		50		ohm	
Wavelength	λ	1260		1620	nm	
Sensitivity				-25	dBm	λ=1310nm, @2488.32Mbps, PRBS23, ER=10dB, BER=10 ⁻¹⁰

Absolute Maximum Ratings					
Parameters	Min.	Max.	Unit	Conditions	
Storage Temperature	-40	100	°C		
Operating Temperature	-40	85	°C		
Lead Solder Temperature		260	°C	10 seconds	

Outline Dimensions (unit: mm)



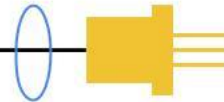
Pinout:

1. Dout
2. Vcc
3. Isource
4. Dout
5. Gnd

Lasermate Group, Inc.

19608 Camino De Rosa, Walnut, CA 91789, USA

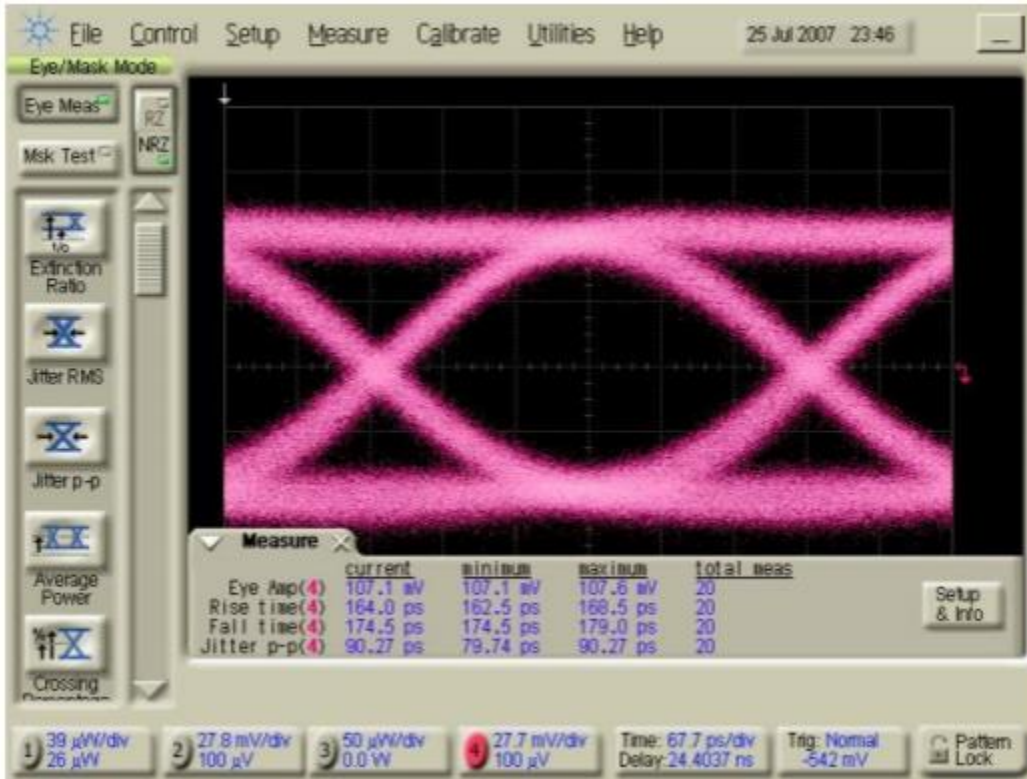
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Typical Characteristics

Eye Diagram

$R_{load} = 50\Omega$, $P = -23\text{dBm}$ @2488.32Mbps, 1310nm, PRBS 23.



$t_r=164.0\text{ps}$, $t_f=174.5\text{ps}$, Jitter p-p= 90.27ps

Note: Specifications are subject to change without notice.