



6.25Gbps 1260nm~1620nm InGaAs PIN plus Pre-Amplifier Photodiode in TO-46 Package, 5-pin

Part No. PDT-A13P5-6GA3

Features

- 1310nm/1550nm InGaAs PINTIA 5 pin TO
- Industry standard TO-46 package with long cap lens and tab-less
- Optimized for fiber optic application
- Design for long wavelength 1.25Gbps to 6.25Gbps applications
- Photocurrent monitoring available
- Single power supply +3.3V

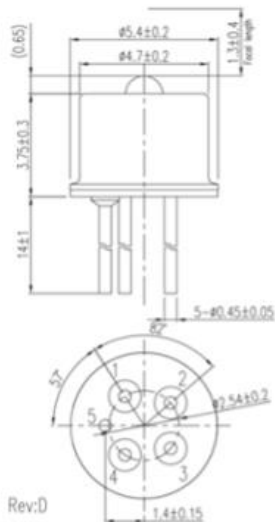


Specifications

Electro-Optical Characteristics (Typical values are at +3.3V @ 25°C)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Power Supply	V _{cc}	3.0		3.6	V	
Supply Current	I _{cc}			62	mA	No loads
Differential Responsivity	R _d	2.8		6.8	mV/uW	λ=1310nm, R _{load} =100ohm, P=-18dBm
Single Ended Responsivity	R _s	1.4		3.4	mV/uW	λ=1310nm, R _{load} =50ohm, P=-18dBm
TIA RSSI	Slope	0.9	1.0	1.1	mA/mA	
	Offset	0	40	100	nA	
	Linearity Limit			1.6	mA	
Small-Signal Bandwidth	BW	5.0			GHz	P=-18dBm
Low-Frequency Cut Off	LF			70	kHz	
Rise/Fall Time (20-80%)	tr/tf			85	ps	λ=1310nm, P=-18dBm
Saturation Power	P _{sat}	0			dBm	
Single Ended Output Impedance	R _o		50		ohm	
Wavelength	λ	1260		1620	nm	
Sensitivity				-18	dBm	λ=1310nm, @6.25Gbps, PRBS7, ER=7dB, BER=10 ⁻¹¹

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

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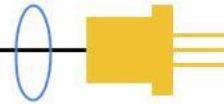
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Note: Specifications are subject to change without notice.

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