

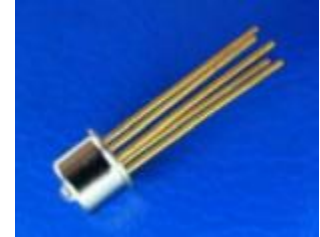


155Mbps 1260nm-1620nm InGaAs PIN plus AGC Pre-Amplifier Photodiode in TO-46 Package, 5-pin

Part No. PDT-A13P5-1MC4

Features

- InGaAs PINTIA 5 pin TO
- Industry standard TO-46 package with short cap lens and tab-less
- Optimized for fiber optic application
- Suitable for 100/155 Mbps applications
- Photocurrent monitoring available
- Supports 3.3V to 5.0V applications

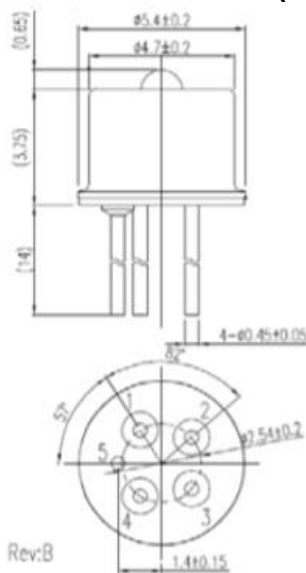


Specifications

Electro-Optical Characteristics (Typical values are at $V_{CC}=3.3V$ at $25^{\circ}C$)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Power Supply	V_{CC}	3.0	3.3	5.5	V	
Supply Current	I_{CC}			36	mA	No loads
Differential Responsivity	R_d	24		54	mV/uW	$P=-33dBm, \lambda=1310nm, R_{load}=100ohm$
Single Ended Responsivity	R_s	0.05		60	mV/uW	$P=-33dBm, \lambda=1310nm, R_{load}=50ohm$
Small-Signal Bandwidth	BF	115			MHz	$\lambda=1310nm, P_i=10uW$
Rise/Fall Time (20-80%)	tr/ta			4.5	ns	$\lambda=1310nm, P_i=10uW$
Saturation Power	P_{sat}	0			dBm	$\lambda=1310nm$
Single Ended Output Impedance	R_o		50		ohm	
Wavelength	λ	1260		1620	nm	
Sensitivity			-38.5	-37	dBm	$\lambda=1310nm, @155.52Mbps, PRBS23, BER=10^{-10}$

Absolute Maximum Ratings					
Parameters	Min.	Max.	Unit	Conditions	
Storage Temperature	-40	100	$^{\circ}C$		
Operating Temperature	-40	85	$^{\circ}C$		
Lead Solder Temperature		260	$^{\circ}C$	10 seconds	

Outline Dimensions (unit: mm)



Pinout:
1. Dout
2. Vcc
3. Isink
4. Dout
5. Gnd

Note: Specifications are subject to change without notice.

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