AdTech optics
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PD: AOP800AC
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AOP800AC

80 µm InGaAs PIN Photodiode

FEATURES

- Highly reliable planar structure.
- 80 µm top-illuminated active area.
- Low dark current.
- High responsivity.

APPLICATIONS

- Optical receivers up to 1.25 Gb/s for Gigabit Ethernet, Fiber Channel and SONET/SDH.
- Instrumentation.

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Rating	Unit
PIN reverse voltage	V_r	30	V
PIN reverse current	I_r	2	mA
Operating temperature	T_{amb}	-40 to +85	°C
Storage temperature	T_{stg}	-50 to +100	°C

ELECTRICAL AND OPTICAL CHARACTERISTICS AT 25 °C

Parameter	Symbol	Min	Typ	Max	Unit	Condition
Wavelength	λ	1000		1650	nm	
Responsivity	R	0.9	1.1		A/W	λ=1550nm
		0.85	0.95			λ=1310nm
Operation voltage	V	2.5		20	V	
Dark current	Id		0.05	1	nA	Vr=5V
Cutoff frequency	fc	1.5			GHz	Vr=5V
Capacitance	C		0.7	0.85	pF	Vr=5V, f=1MHz