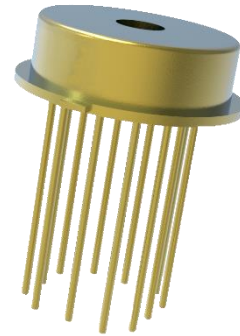


InGaAs APD Module

Model: OPR200-1550-100-Z

Features

- Sensitivity: $\geq 400\text{kV/W}$
- Bandwidth: 100Mhz
- InGaAs APD: 1100 to 1700nm
- Low noise
- High reliability
- TO8 package with flat window



Applications

- LIDAR
- Laser finding
- Free space optical communication

Absolute Maximum Ratings

Parameter	Unit	Symbol	Rating
Reverse breakdown voltage	V	V_R	V_{BR}
Operating temperature	$^{\circ}\text{C}$	T_C	-40~+85
Storage temperature	$^{\circ}\text{C}$	T_{STG}	-55~+100
Maximum optical input power	mW	P_{in}	100
Module mains voltage	V	V_{cc}/V_{EE}	± 5
Power dissipation	mW	P_w	250
Soldering temperature(time)	$^{\circ}\text{C}$	-	300 (10s)

Optical/Electrical Characteristics (T=25 $^{\circ}\text{C}$, unless otherwise stated)

Parameter	Symbol	Value			Unit	Test conditions
		Min.	Typ.	Max.		
Response Spectrum	λ	1100~1700			nm	
Active Diameter	D		200		μm	
Reverse breakdown voltage	V_{BR}	30		70	V	
Operating voltage	V_R	V_R-3			V	M=10
Responsivity	R_v	400			kV/W	M=10,1.55 μm @ $\tau=100\text{ns}$
Dynamic range	DY	25			dB	M=10,1.55 μm @ $\tau=100\text{ns}$
-3dB bandwidth	BW		70		Mhz	M=10,1.55 μm @ $\tau=100\text{ns}$
Rise/Fall time	t_r		3.5		ns	M=10,1.55 μm @ $\tau=100\text{ns}$

