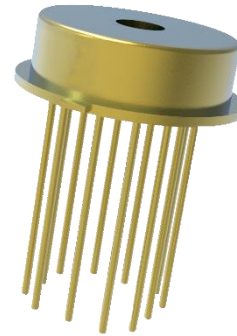


# InGaAs APD Module

Model: OPR200-1550-70-Z

## Features

- Sensitivity:  $\geq 500\text{kV/W}$
- Bandwidth: 70Mhz
- 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	$V_{cc}/V_{EE}$	$\pm 6$
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	$\lambda$	1100~1700			nm	
Active Diameter	D		200		$\mu\text{m}$	
Reverse breakdown voltage	$V_{BR}$	30		70	V	
Operating voltage	$V_R$	$V_R-3$			V	M=10
Responsivity	$R_V$	500			kV/W	M=10,1.55 $\mu\text{m}$ @ $\tau=100\text{ns}$
Dynamic range	DY	25			dB	M=10,1.55 $\mu\text{m}$ @ $\tau=100\text{ns}$
-3dB bandwidth	BW		70		Mhz	M=10,1.55 $\mu\text{m}$ @ $\tau=100\text{ns}$
Rise/Fall time	$t_r$		5		ns	M=10,1.55 $\mu\text{m}$ @ $\tau=100\text{ns}$

