

Coaxial Pigtail Linear Photodiode



GPD200 series photodiodes are InGaAs semiconductor detector with typical diameter 75 μ m for CATV and digital communications. The low dark current and low back reflection features enable excellent linear performance. GPD200 is assembled with a single mode 1-meter long 900 μ m diameter fiber pigtail.

Features:

- Low Capacitance: $\leq 1\text{pF}$
- 2GHz Frequency Response
- Low Dark Current, Low Back Reflection
- High Responsivity:
- Laser Welding, Coaxial Package
- High Reliability
- Complied with Telcordia GR-468
- Complied with RoHS

Absolute maximum ratings (25°C)

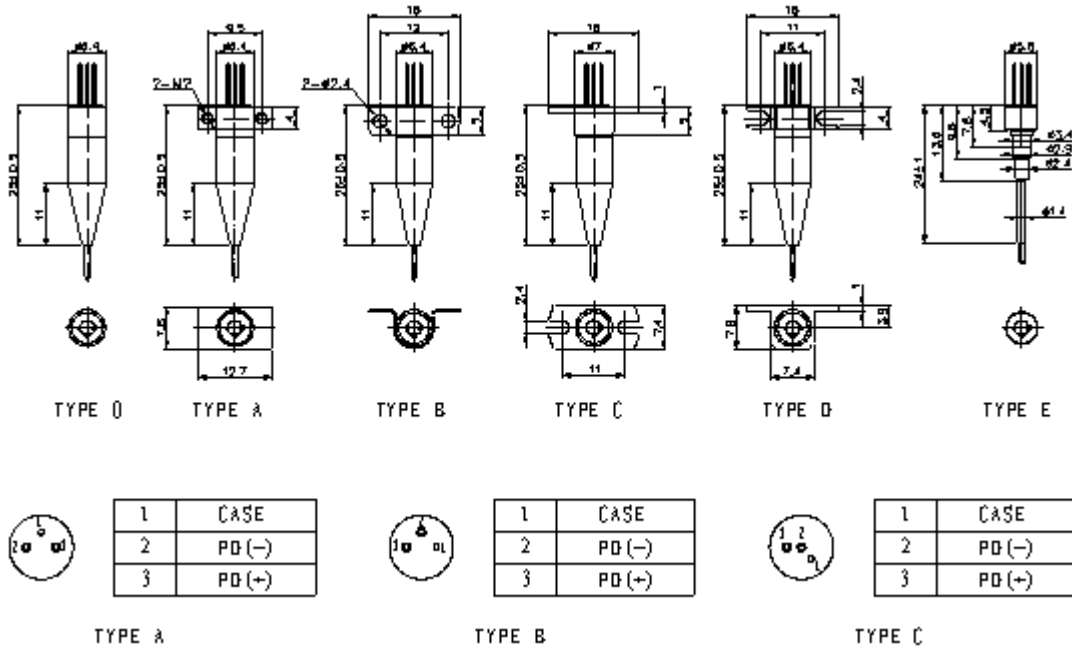
Parameter	Symbol	Min.	Max.	Unit
Operating Temperature Range	Top	-40	+85	°C
Storage Temperature Range	Tstg	-40	+85	°C
Soldering Temperature T _{max} = 10s	Ts	-	260	°C
Forward Current	I _{fd}	-	10	mA
Reverse Voltage	V _{rd}	-	25	V
Saturation Input Power	P _{sat}	-	10	mW

Electrical and optical characteristics (T_c=+25°C, V_R=5V)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Detection Area	DA	40	75	80	μm	
Detection Wavelength Range	λ	1100	-	1650	nm	
Responsivity	R	0.85	-	-	A/W	V _{rd} =5V, λ =1310nm
		0.90	-	-	A/W	V _{rd} =5V, λ =1550nm
Return Loss	RL	-	-	-55	dB	

Carrier/Noise Ratio	C/N	50	-	-	dB	
Second Order Intermodulation	IMD2*	-	-	70	dB	
Third Order Intermodulation	IMD3*	-	-	80	dB	
Dark Current	Id	-	0.3	2	nA	Vrd =5V
Capacitance	C	-	0.7	1.0	pF	Vrd =5V
Bandwidth	BW	2	-	-	GHz	Vrd =5V

Mechanical Dimension and Pin Assignment



Unit:mm

Tolerance: ±0.1mm, unless otherwise noted.

Ordering Information

GPD200-X-Y-Z High Linearity Photodiode in Coaxial

X (Package Type): 0 or A or B or C or D

Y (Pin Assignment): A or B or C

Z (Pigtail Connector): SU_SC/UPC, FU_FC/UPC, SA_SC/APC, FA_FC/APC