



#### FEATURES

- Sensitive Receiver for the 2<sup>nd</sup> Window (1300 nm)
- Suitable for Bit Rates up to 1.2 Gbit/s and Long Distances
- High Gain Bandwidth Product
- Planar Structure
- Small Radiant Sensitive Area
- Low Multiplied Dark Current
- Package: Hermetically Sealed 3-pin Case, Similar to TO 18
- Application: Fiber Optic Communication Systems

#### Maximum Ratings

Operating Temperature Range ( $T_{OP}$ )	-40° to +85°C
Storage Temperature Range (in original packing) ( $T_{STG}$ )	-40° to +85°C
Reverse Voltage (without light) ( $V_{BR}$ )	28 to 40 V
Forward Current ( $I_{Fmax}$ )	50 mA
Maximum Optical Power into Optical Port, $M=1$ ( $\Phi_{PORT}$ )	1 mW

\* Individual value of  $V_{BR}$  is delivered with each component

**Characteristics** ( $T_A=25^\circ\text{C}$ , all optical data refers to an optimally coupled 10/125  $\mu\text{m}$  fiber.)

Parameter	Symbol	Value	Unit
Radiant Sensitive Area	$\varnothing$	50	$\mu\text{m}$
Spectral Sensitivity	$S_\lambda$	$\geq 0.7$	A/W
( $M=1$ , $\lambda=1300$ nm, $\Phi_{PORT}=1$ $\mu\text{W}$ )			
Rise and Fall Time	$t_R, t_F$	$\leq 0.5$	ns
( $R_L=50$ $\Omega$ , $V_R=10$ V, $\lambda=1300$ nm)			
Breakdown Voltage ( $I_R=100$ $\mu\text{A}$ )	$V_{BR}$	28 to 40	V
Multiplication Factor ( $V_R=0.9 \times V_{BR}$ )	M	4 (>3)	-
Capacitance			
( $V_R=0$ V, $f=1$ MHz)	$C_D$	$\leq 7$	pF
( $\Phi_{PORT}=0$ ( $V_R=0.9 \times V_{BR}$ ))	$C_{0.9 \times V_{BR}}$	$\leq 2$	pF
Total Dark Current			
( $V_R=10$ V)	$I_R$	$\leq 200$	nA
( $V_R=0.9 \times V_{BR}$ )		$\leq 300$	nA
Multiplied Dark Current ( $M=10$ )	$I_{RM}$	$\leq 20$	nA