

**AFONICS****RX-0018**

- InGaAs PIN Diode
- Large area
- High responsivity

**Performance Highlights**

- Responsivity typically 0.8A/W at 1300nm
- Maximum dark current of 10nA
- Operating temperature -40°C to +85°C

LIMITING VALUES	SYMBOL	VALUE	UNITS
Reverse voltage	$V_R$	15	V
Operating temperature	$T_{amb}$	-40 to +85	°C
Storage temperature	$T_{stg}$	-40 to +85	°C
Soldering temperature 2mm from case for 10s	$T_{sld}$	250	°C

OPTICAL/ELECTRICAL CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITION
Responsivity <sup>(1)</sup>	R	0.75	0.9		A/W	$\lambda = 1300\text{nm}$
Rise time / Fall time	$t_r/t_f$			3.0	ns	$V_R = 5V$
Operating voltage	$V_R$			15	V	
Capacitance	$C_T$		4		pF	$V_R = 5V, f = 1\text{MHz}$
Dark current	$I_D$			10	nA	$V_R = 5V$

All values apply at a temperature of 25°C