

**AFONICS*****RX-0008***

- Si PIN Diode
- 350MHz bandwidth

Performance Highlights

- Responsivity typically 0.35A/W
- Maximum dark current 1.5nA
- Operating temperature -55°C to +125°C

LIMITING VALUES	SYMBOL	VALUE	UNITS
Continuous reverse voltage	V_R	50	V
Operating temperature	T_{amb}	-55 to +125	°C
Storage temperature	T_{stg}	-65 to +150	°C
Soldering temperature 2mm from case for 13	T_{sld}	260	°C

OPTICAL/ELECTRICAL CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITION
Responsivity (50µm core fibre)	R	0.30	0.35		A/W	$\lambda = 850\text{nm}$, $V_R = 5\text{V}$
Rise and fall time (10% - 90%)	t_r, t_f			1.5	ns	$V_R = 5\text{V}$, $R_L = 50\Omega$, $\lambda = 880\text{nm}$, $I_p = 7\mu\text{A}$
Bandwidth	f_c		350		MHz	$V_R = 5\text{V}$
Operating voltage	V_F		1.3		V	$I_F = 80\text{mA}$
Capacitance	C_T			2	pF	$V_R = 5\text{V}$, $f = 1\text{MHz}$
Dark current	I_D			1.5	nA	$V_R = 30\text{V}$

All values apply at a temperature of 25°C

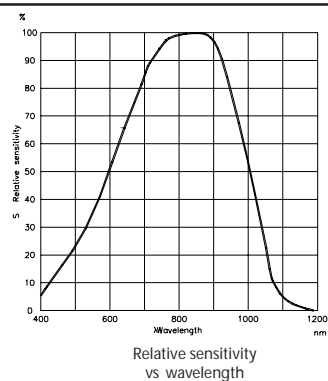
Note: The stated operating temperature range applies to the device only. This range may change for the receptacled part, due to the methods of assembly particular to each part.



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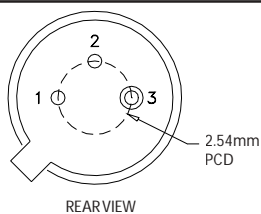
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GRAPHS SHOWING TYPICAL CHARACTERISTICS



PINOUT DETAILS

- 1 = Anode
- 2 = Cathode
- 3 = Case
- Pin length = 12mm



INTERNAL CIRCUIT



NOTES:

- 1) The device is very susceptible to damage by electrostatic discharge.