RX-0010



- Low cost Si PIN Diode
- 50MHz bandwidth

Performance Highlights

- Responsivity typically 0.55A/W
- Typical dark current 0.1nA

LIMITING VALUES	SYMBOL	VALUE	UNITS
Continuous reverse voltage	$V_{_{\mathrm{R}}}$	30	V
Total power dissipation	P_{D}	100	mW
Operating temperature (1)	T _{amb}	-25 to +100	°C
Storage temperature (1)	T_{stg}	-30 to +125	°C
Soldering temperature 2mm from case for 10s	T_{sld}	300	°C

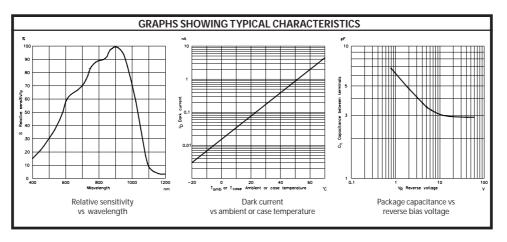
OPTICAL/ELECTRICAL CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITION
Responsivity (2)	R	0.50	0.55		A/W	$\lambda = 850$ nm, $V_R = 10V$
Rise and fall time (10% - 90%)	t _r , t _f		5		ns	$V_R = 10V, R_L = 50\Omega,$ $\lambda = 880$ nm, $I_p = 7\mu$ A
Bandwidth	f _c		50		MHz	$V_R = 10V$
Capacitance	C _T		3		рF	$V_R = 10V, f = 1MHz$
Dark current	I _D		0.1	10	nA	$V_R = 10V$

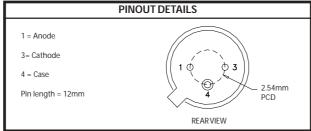
All values apply at a temperature of 25°C

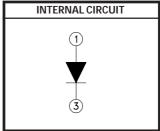
⁽¹⁾ Applies to active device only. Receptacled performance may differ depending on the method of construction applicable to each part.

⁽²⁾ Applies to fibres with core diameter less than 63μm









NOTES:

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