



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

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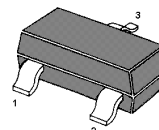
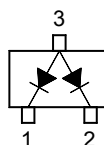
HIGH SPEED DOUBLE SWITCHING DIODE

Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance

Applications

- Ultra high speed switching application



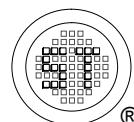
Marking Code: **A1**
SOT-23 Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Forward Current (DC)	I_F	215	mA
Single Diode Loaded			
Double Diode Loaded		125	
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non-Repetitive Peak Forward Current	at $t = 1\ \mu\text{s}$	4	A
	at $t = 1\ \text{ms}$	1	A
	at $t = 1\ \text{s}$	0.5	A
Power Dissipation	P_{tot}	250	mW
Operating Junction Temperature Range	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_S	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage	V_F		
		at $I_F = 1\ \text{mA}$	mV
		at $I_F = 10\ \text{mA}$	mV
		at $I_F = 50\ \text{mA}$	V
Reverse Current	I_R		
		at $V_R = 25\ \text{V}$	nA
		at $V_R = 75\ \text{V}$	μA
		at $V_R = 25\ \text{V}, T_J = 150^\circ\text{C}$	μA
Diode Capacitance	C_d		
		at $f = 1\ \text{MHz}$	pF
Reverse Recovery Time	t_{rr}	4	ns
at $I_F = I_R = 10\ \text{mA}, R_L = 100\ \Omega$			



Dated : 22/01/2008



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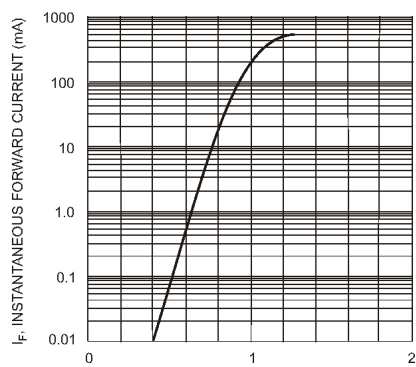


Fig. 1 Forward Characteristics

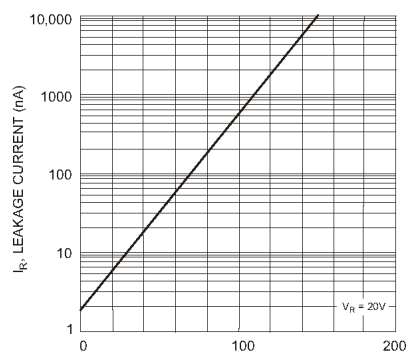


Fig. 2 Leakage Current vs Junction Temperature

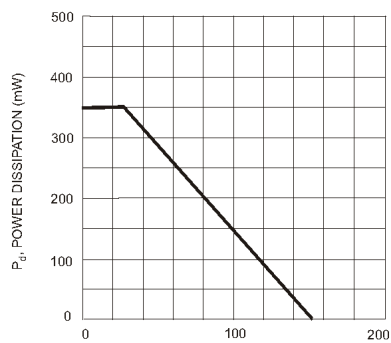
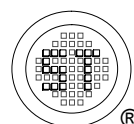


Fig. 3 Power Derating Curve, total package



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