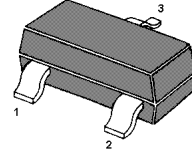
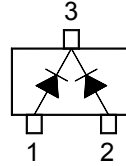


BAV74

SILICON PLANAR DUAL SWITCHING DIODE

High Speed Switching Dual Diodes



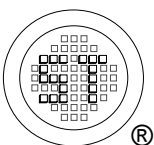
Marking Code: **A4**
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Continuous Reverse Voltage	V_R	50	V
Forward Current (DC)	Single Diode Loaded	215	mA
	Double Diode Loaded	125	
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non-Repetitive Peak Forward Current	I_{FSM}	at $t = 1\text{ }\mu\text{s}$	4
		at $t = 1\text{ ms}$	1
		at $t = 1\text{ s}$	0.5
Power Dissipation	P_d	350	mW
Operating Junction Temperature Range	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Max.	Unit
Forward Voltage	V_F	at $I_F = 1\text{ mA}$	715
		at $I_F = 10\text{ mA}$	855
		at $I_F = 50\text{ mA}$	1
		at $I_F = 150\text{ mA}$	1.25
Reverse Current	I_R	at $V_R = 25\text{ V}$	30
		at $V_R = 50\text{ V}$	0.1
		at $V_R = 25\text{ V}, T_J = 150\text{ }^\circ\text{C}$	30
		at $V_R = 50\text{ V}, T_J = 150\text{ }^\circ\text{C}$	100
Diode Capacitance	C_d	2	pF
at $f = 1\text{ MHz}$			
Reverse Recovery Time	t_{rr}	4	ns
at $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}, R_L = 100\text{ }\Omega$			



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506088

Dated : 10/10/2008

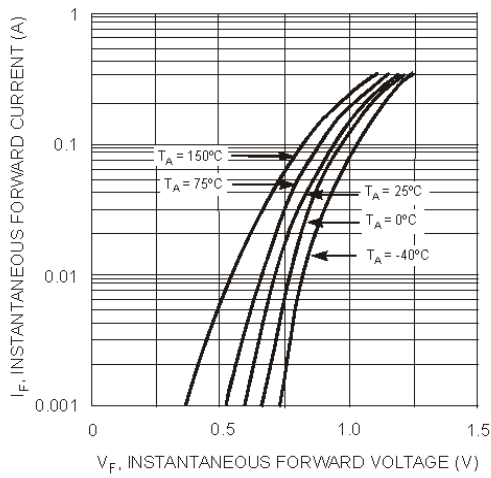


Fig. 1 Forward Characteristics

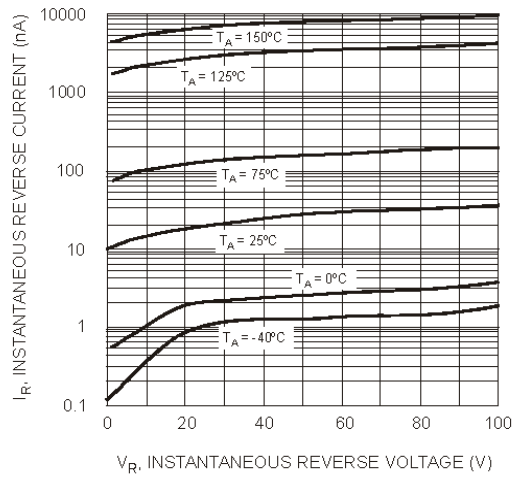


Fig. 2 Typical Reverse Characteristics

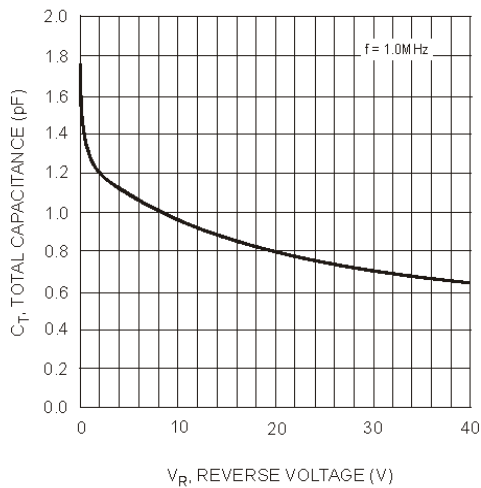


Fig. 3 Typical Capacitance vs. Reverse Voltage

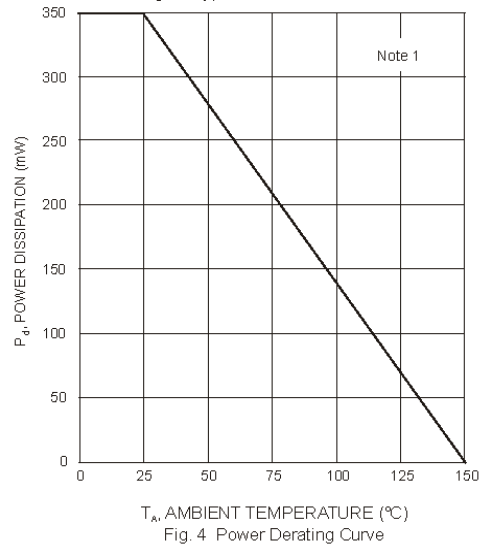
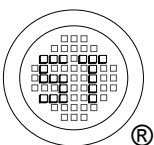


Fig. 4 Power Derating Curve



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