



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.

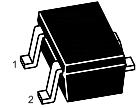
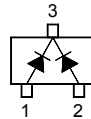
TEL: 852-2790 0314 FAX: 852-2790 0206

BAV70W

SILICON EPITAXIAL PLANAR SWITCHING DIODE

Features

- Fast switching diode
- Ultra small surface mount package



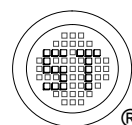
SOT-323 Plastic Package
Marking Code: **A4**

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

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Continuous Forward Current	I_F	175	mA
Single diode loaded Double diode loaded		100	
Repetitive Peak Forward Current	I_{FRM}	500	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_{tot}	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 65 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{BR(R)}$	75	-	V
Forward Voltage	V_F	at $I_F = 1\text{ mA}$	-	0.715
		at $I_F = 10\text{ mA}$	-	0.855
		at $I_F = 50\text{ mA}$	-	1
		at $I_F = 150\text{ mA}$	-	1.25
Reverse Leakage Current	I_R	at $V_R = 25\text{ V}$	-	30
		at $V_R = 75\text{ V}$	-	2.5
		at $V_R = 25\text{ V}, T_J = 150\text{ }^\circ\text{C}$	-	60
		at $V_R = 75\text{ V}, T_J = 150\text{ }^\circ\text{C}$	-	100
Diode Capacitance at $V_R = 0\text{ V}, f = 1\text{ MHz}$	C_{tot}	-	2	pF
Reverse Recovery Time at $I_F = 10\text{ mA}$ to $I_R = 10\text{ mA}, I_{rr} = 0.1 I_R, R_L = 100\text{ }\Omega$	t_{rr}	-	4	ns



Dated : 15/05/2007



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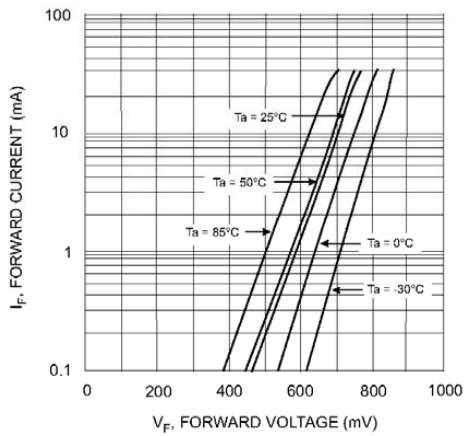


Fig. 1 Forward Current vs. Forward Voltage

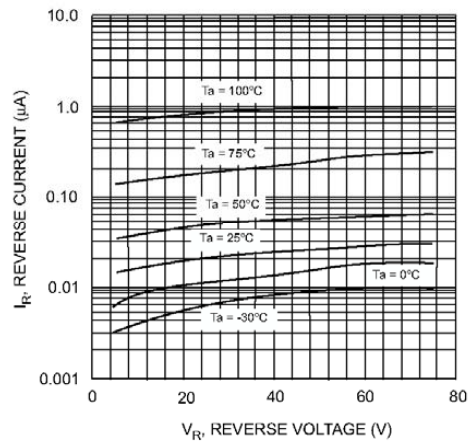


Fig. 2 Reverse Current vs. Reverse Voltage

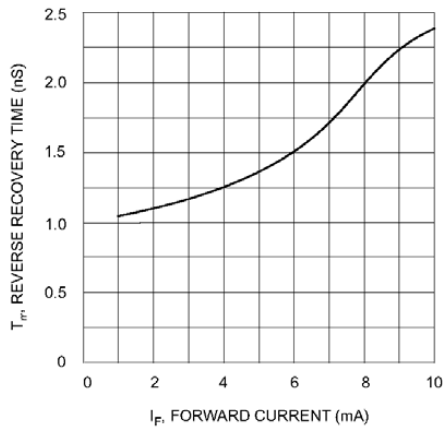


Fig. 3. Reverse Recovery Time vs. Forward Current

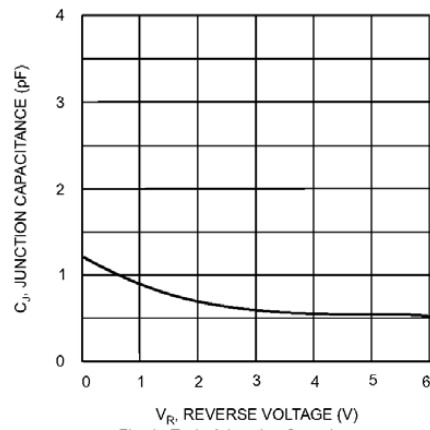


Fig. 4. Typical Junction Capacitance vs. Reverse Voltage

