



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

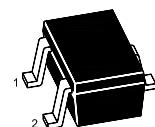
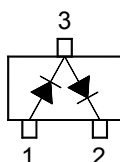
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314

FAX: 852-2790 0206

BAV99W

HIGH-SPEED DOUBLE SWITCHING DIODE



SOT-323 Plastic Package

Marking Code: A7

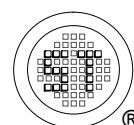
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Continuous Forward Current	I_F	150	mA
Single Diode Load ¹⁾ Double Diode Load ¹⁾		130	
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-repetitive Peak Forward Current Square Wave; $T_j = 25^\circ\text{C}$ Prior to Surge	I_{FSM}	4	A
at $t = 1\ \mu\text{s}$		1	
at $t = 1\ \text{ms}$ at $t = 1\ \text{s}$		0.5	
Total Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance from Junction to Ambient ¹⁾	$R_{th\ j-a}$	625	K/W

¹⁾ Device mounted on an FR4 printed-circuit board.

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\ \text{mA}$ at $I_F = 10\ \text{mA}$ at $I_F = 50\ \text{mA}$ at $I_F = 150\ \text{mA}$	V_F	0.715 0.855 1 1.25	V
Reverse Current at $V_R = 25\ \text{V}$ at $V_R = 75\ \text{V}$ at $V_R = 25\ \text{V}$, $T_j = 150^\circ\text{C}$ at $V_R = 75\ \text{V}$, $T_j = 150^\circ\text{C}$		30 1 30 50	
Diode Capacitance at $f = 1\ \text{MHz}$; $V_R = 0$	C_d	1.5	pF
Reverse Recovery Time at $I_F = 10\ \text{mA}$ to $I_R = 10\ \text{mA}$, $R_L = 100\ \Omega$; measured at $I_R = 1\ \text{mA}$	t_{rr}	4	ns
Forward Recovery Voltage at $I_F = 10\ \text{mA}$, $t_r = 20\ \text{ns}$	V_{fr}	1.75	V



Dated : 12/01/2006



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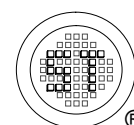
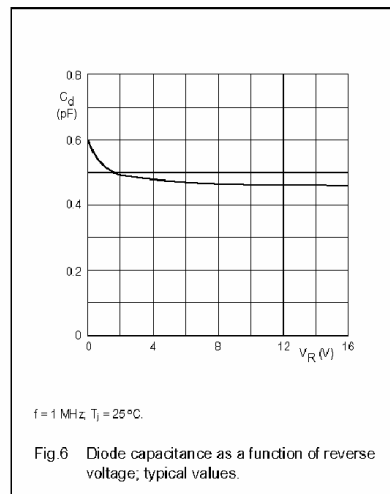
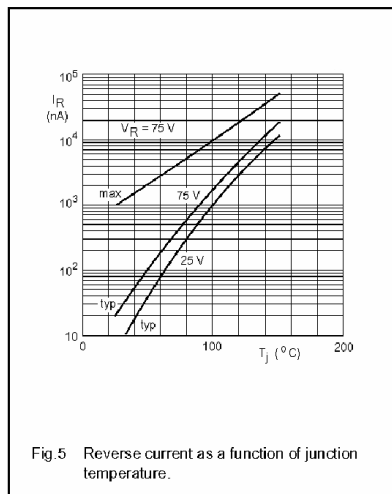
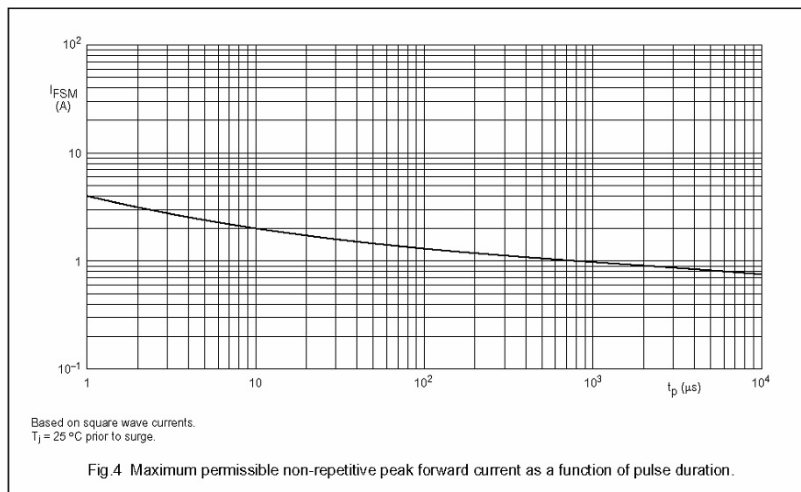
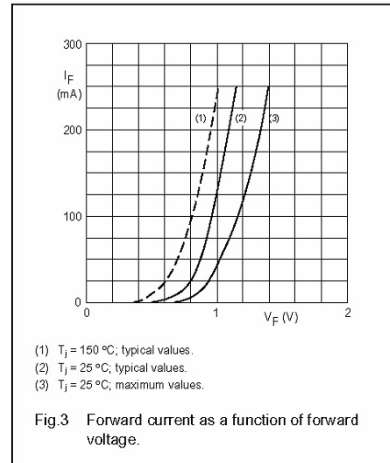
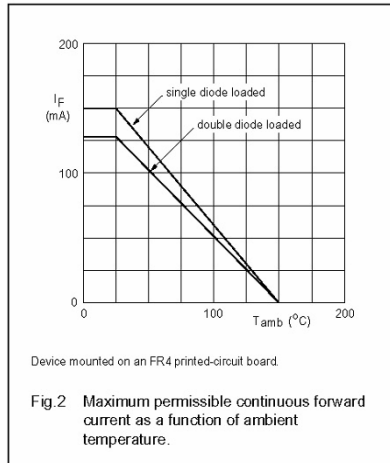
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