



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

BAV19WS, BAV20WS, BAV21WS

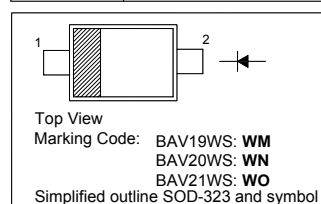
SURFACE MOUNT FAST SWITCHING DIODE

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

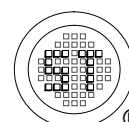


Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value			Unit
		BAV19WS	BAV20WS	BAV21WS	
Repetitive Peak Reverse Voltage	V_{RRM}	120	200	250	V
Reverse Voltage	V_R	100	150	200	V
Average Rectified Output Current	I_O	200			mA
Forward Continuous Current	I_{FM}	400			mA
Repetitive Peak Forward Surge Current	I_{FRM}	625			mA
Non-repetitive Peak Forward Surge Current at $t = 1\ \mu\text{s}$ at $t = 1\ \text{s}$	I_{FSM}	2.5 0.5			A
Power Dissipation	P_{tot}	200			mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	625			$^\circ\text{C/W}$
Junction Temperature	T_j	- 65 to + 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 $I_R = 100\ \mu\text{A}$	$V_{(BR)R}$	120 200 250	- - -	V
Reverse Current at $V_R, T_j = 25\text{ }^\circ\text{C}$ at $V_R, T_j = 100\text{ }^\circ\text{C}$	I_R	- -	100 15	nA μA
Forward Voltage at $I_F = 100\ \text{mA}$ at $I_F = 200\ \text{mA}$	V_F	- -	1 1.25	V
Total Capacitance at $f = 1\ \text{MHz}$	C_T	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30\ \text{mA}, I_{RR} = 0.1 \times I_R, R_L = 100\ \Omega$	t_{rr}	-	50	ns



Dated : 01/09/2006



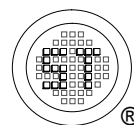
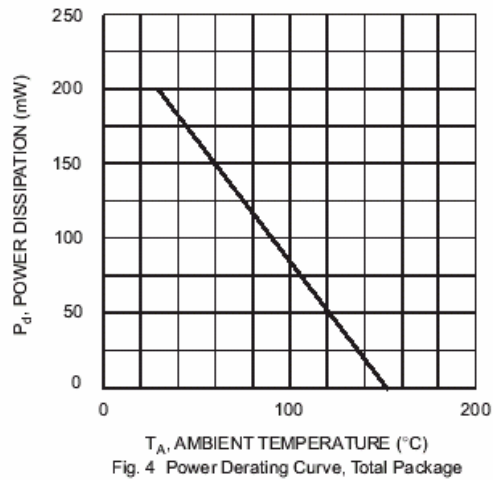
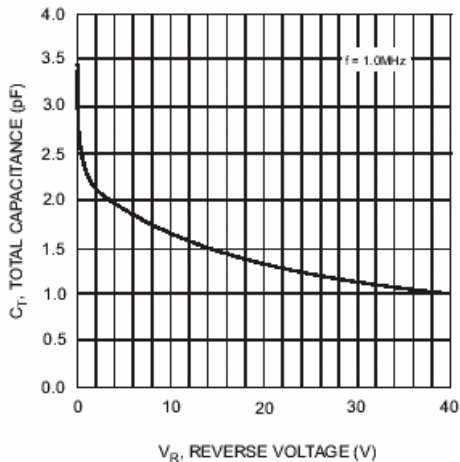
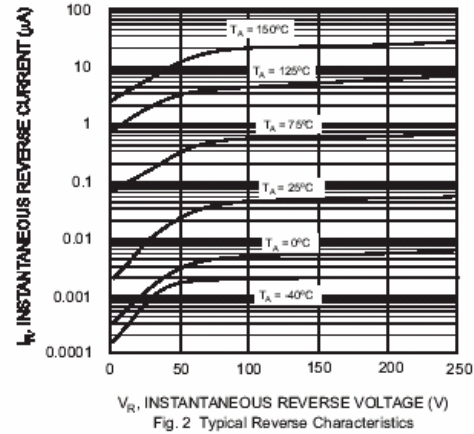
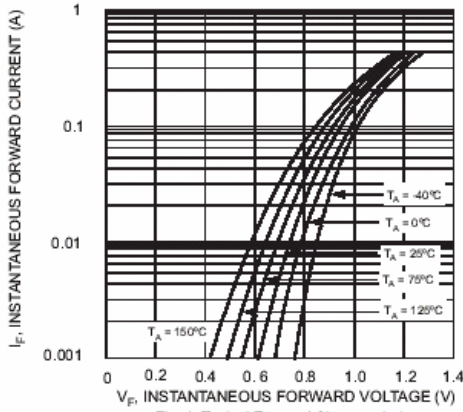
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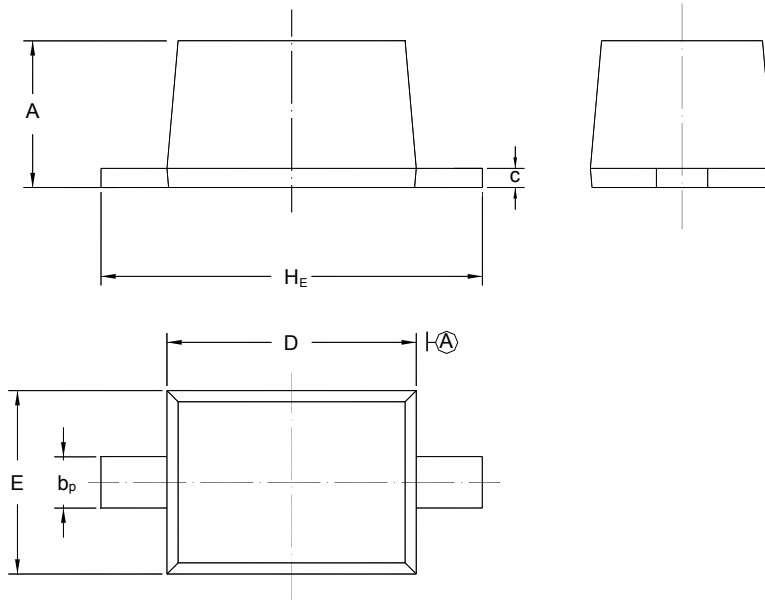
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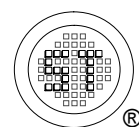
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b _p	C	D	E	H _E
mm	1.10 0.80	0.40 0.25	0.15 0.00	1.80 1.60	1.35 1.15	2.80 2.30



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