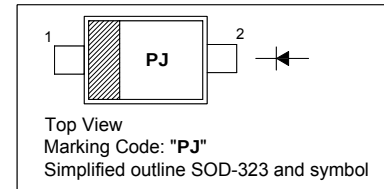


BAW56WS

HIGH-SPEED SWITCHING DIODE

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

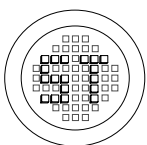


Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	85	V
Reverse Voltage	V_R	75	V
Continuous Forward Current	I_F	125	mA
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non-repetitive Peak Forward Current $T_j = 25\text{ }^{\circ}\text{C}$, at $t = 1\text{ }\mu\text{S}$ at $t = 1\text{ ms}$ at $t = 1\text{ S}$	I_{FSM}	4 1 0.5	A
Power Dissipation	P_{tot}	250	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	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	715 855 1 1.25	mV mV V V
Reverse Current at $V_R = 25\text{ V}$ at $V_R = 75\text{ V}$ at $V_R = 25\text{ V}$, $T_j = 150\text{ }^{\circ}\text{C}$ at $V_R = 75\text{ V}$, $T_j = 150\text{ }^{\circ}\text{C}$	I_R	30 1 30 50	nA μA μA μA
Diode Capacitance at $f = 1\text{ MHz}$	C_d	2	pF
Reverse Recovery Time at $I_F = 10\text{ mA}$, $I_R = 10\text{ mA}$, $R_L = 100\text{ }\Omega$	t_{rr}	4	ns
Forward Recovery Voltage at $I_F = 10\text{ mA}$, $t_r = 20\text{ ns}$	V_{fr}	1.75	V



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 01/09/2006

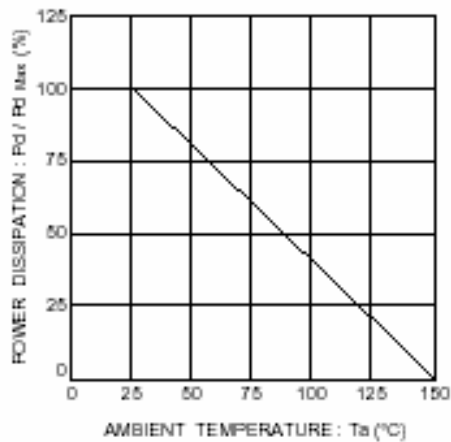


Fig.1 Power attenuation curve

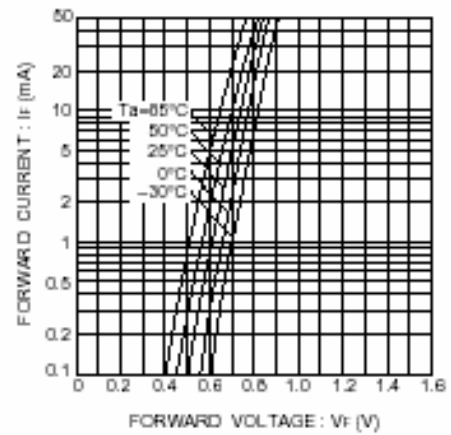


Fig.2 Forward characteristics

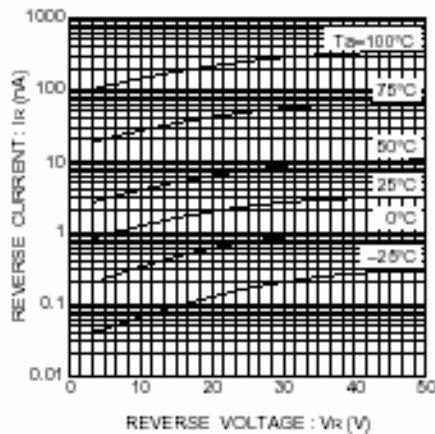


Fig.3 Reverse characteristics

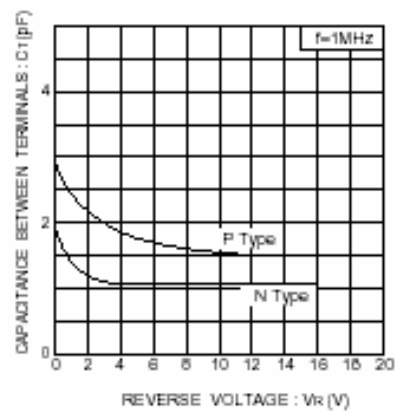


Fig.4 Capacitance between terminals characteristics

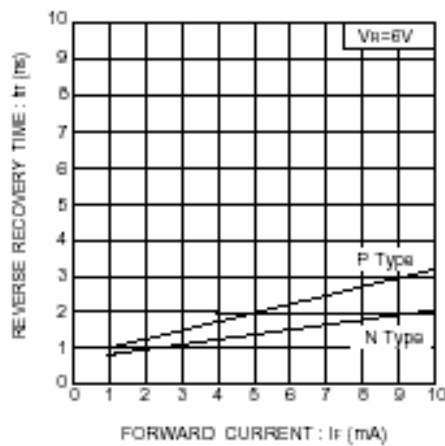
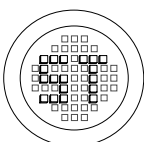


Fig.5 Reverse recovery time



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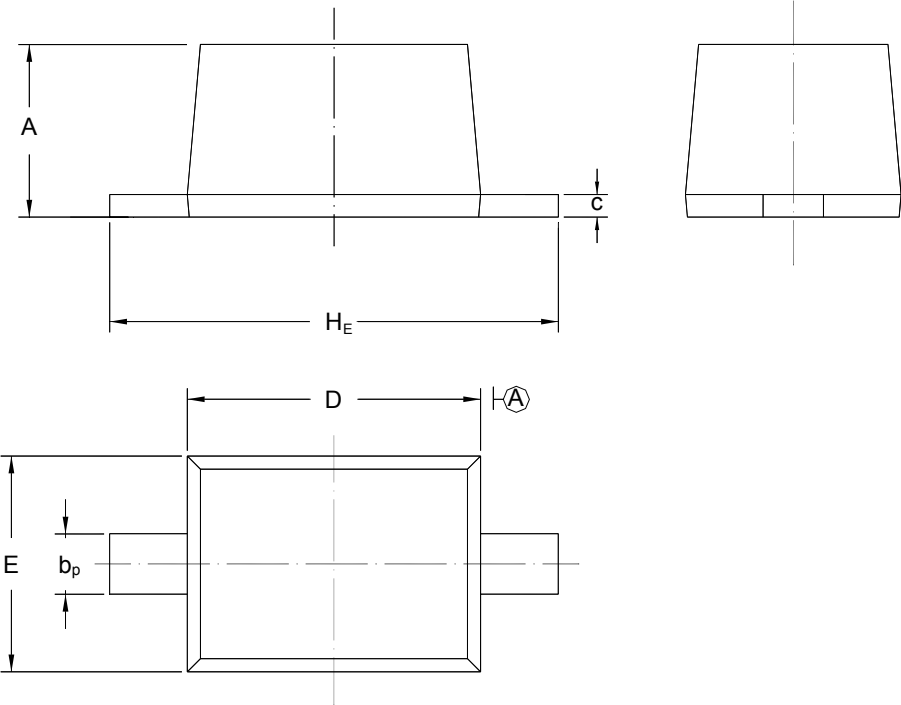
ISO 9001:2000
Certificate No. 0506098

Dated : 01/09/2006

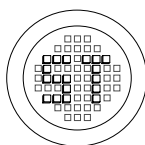
PACKAGE OUTLINE

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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