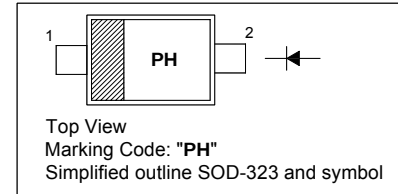


BAV70WS

SMALL SIGNAL DIODE

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

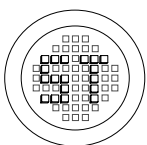


Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current at Pulse Width = 1 s at Pulse Width = 1 μ s	I_{FSM}	1 2	A
Power Dissipation	P_d	350	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	357	$^{\circ}\text{C/W}$
Operating Junction Temperature Range	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^{\circ}\text{C}$

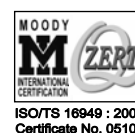
Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	V_R	70	-	V
Forward Voltage at $I_F = 1\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 50\text{ mA}$	V_F	- - -	715 855 1	mV mV V
Reverse Voltage at $V_R = 70\text{ V}$ at $V_R = 25\text{ V}$, $T_a = 150\text{ }^{\circ}\text{C}$ at $V_R = 70\text{ V}$, $T_a = 150\text{ }^{\circ}\text{C}$	I_R	- - -	5 60 100	μA
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}$ to $I_R = 1\text{ mA}$, $R_L = 100\text{ }\Omega$	t_{rr}	-	6	ns
Total Capacitance at $f = 1\text{ MHz}$	C_T	-	1.5	pF



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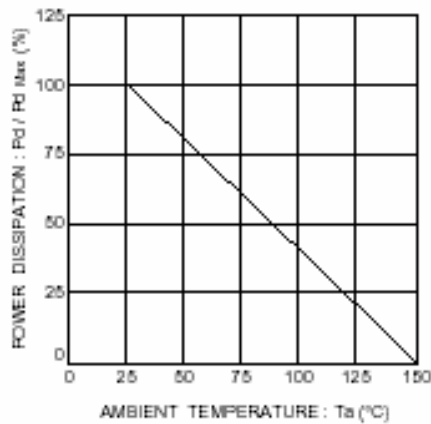


Fig. 1 Power attenuation curve

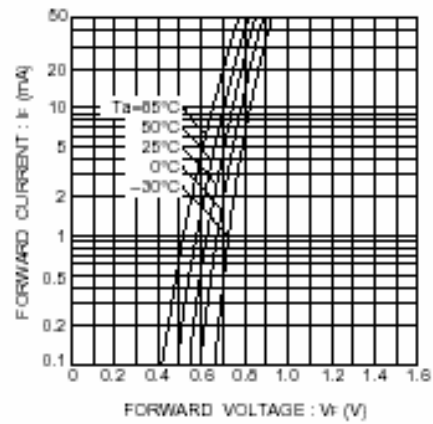


Fig. 2 Forward characteristics

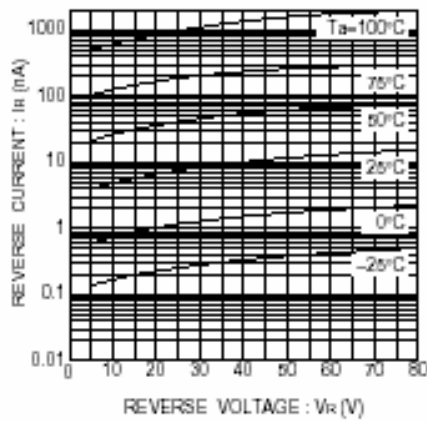


Fig. 3 Reverse characteristics

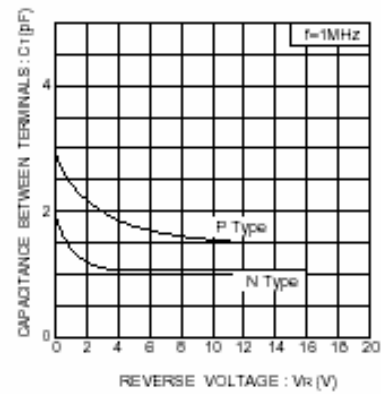


Fig. 4 Capacitance between terminals characteristics

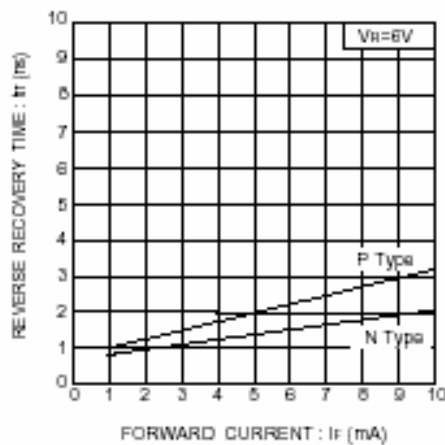
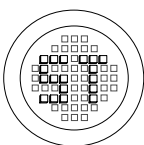


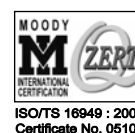
Fig. 5 Reverse recovery time



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®



ISO/TS 16949 : 2002
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ISO 14001:2004
Certificate No. 71116



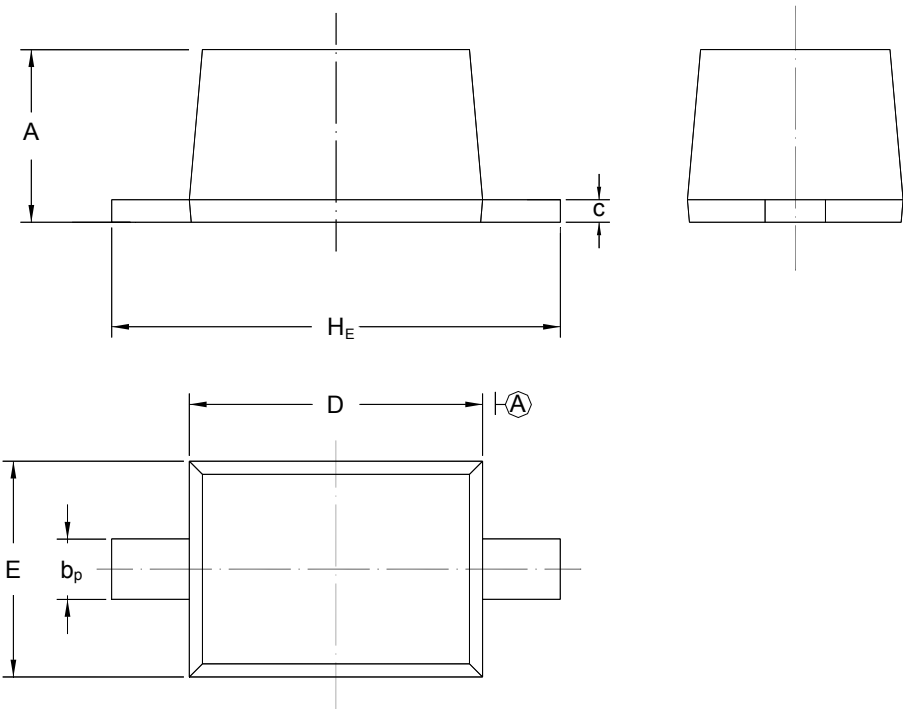
ISO 9001:2000
Certificate No. 0506098

Dated : 01/09/2006

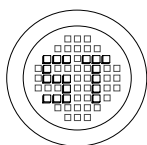
PACKAGE OUTLINE

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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