

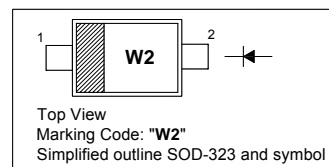
# BAW56WS

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## HIGH-SPEED SWITCHING DIODE

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

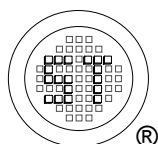


### Absolute Maximum Ratings ( $T_a = 25\text{ }^{\circ}\text{C}$ )

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	$T_{stg}$	- 65 to + 150	$^{\circ}\text{C}$

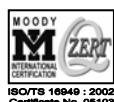
### Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

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 $\mu\text{A}$ $\mu\text{A}$ $\mu\text{A}$
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



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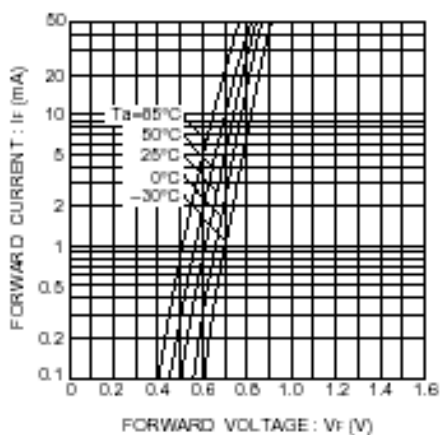
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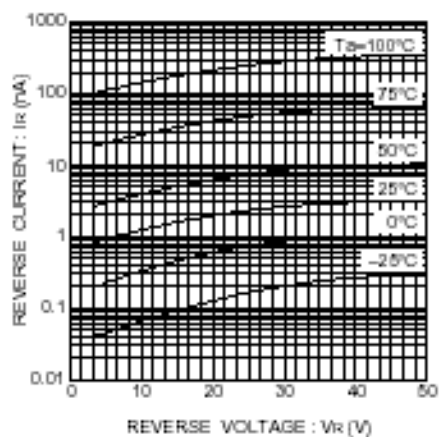
Dated : 07/04/2009

# BAW56WS

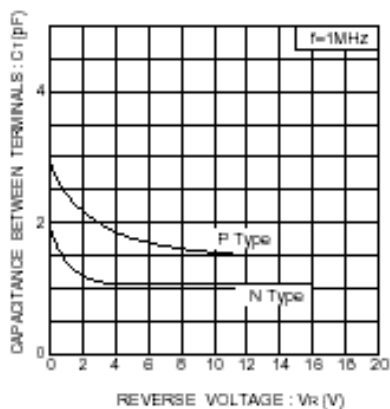
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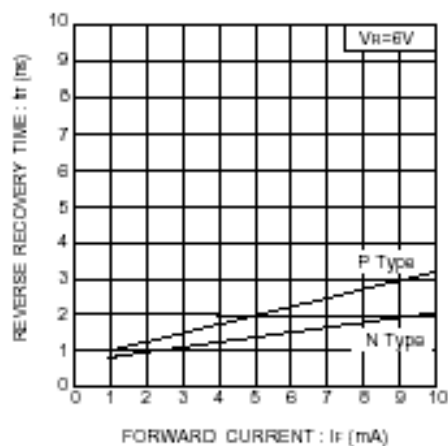
Forward characteristics



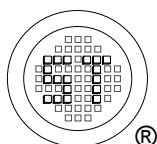
Reverse characteristics



Capacitance between terminals characteristics

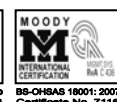
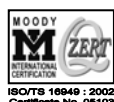


Reverse recovery time



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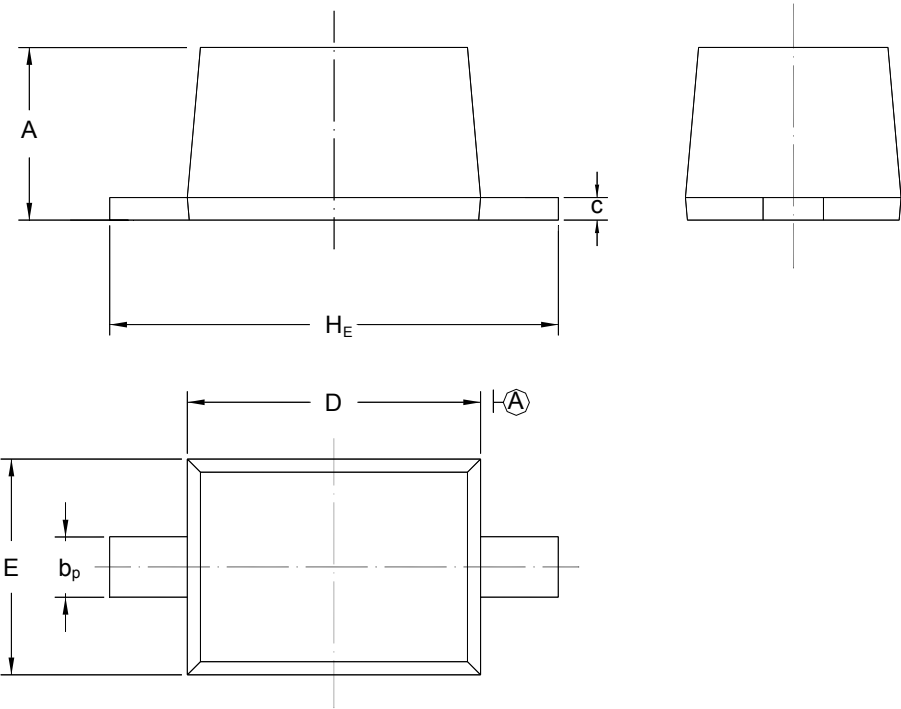


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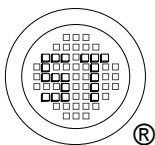
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>
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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