

BAV99W

Features

Fast Switching Speed Ultra-small Surface Mount Package For General Purpose Switching Applications High Conductance

Mechanical Data

Case: SOT-323, Molded Plastic

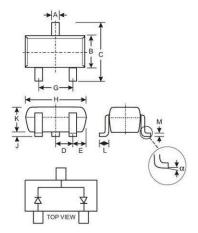
Case Material - UL Flammability Rating 94V-0 Moisture sensitivity: Level 1 per J-STD-020A Terminals: Solderable per MIL-STD-202,

Method 208

Polarity: See Diagram

Marking: A7

Weight: 0.006 grams (approx.)



SOT-323					
Dim	Min	Max			
Α	0.25	0.40			
В	1.15	1.35			
С	2.00	2.20			
D	0.65 Nominal				
E	0.30	0.40			
G	1.20	1.40			
Н	1.80	2.20			
J	0.0	0.10			
K	0.90	1.00			
L	0.25	0.40			
M	0.10	0.18			
α	0°	8°			

■ Maximum Ratings @ T_A = 25°C unless otherwise specified

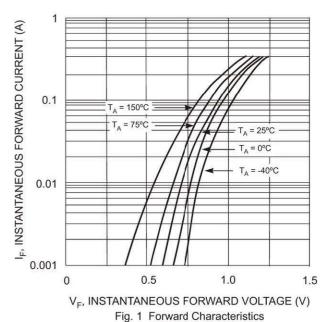
Characteristic	Symbol	Value	Unit V	
Non-Repetitive Peak Reverse Voltage	V _{RM}	100		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _R WM V _R	75	V V mA	
RMS Reverse Voltage	V _{R(RMS)}	53		
Forward Continuous Current (Note 1)	I _{FM}	300		
Average Rectified Output Current (Note 1)	Io	150	mA	
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs (Note 1) @ t = 1.0s	I _{FSM}	2.0 1.0	A	
Power Dissipation (Note 1)	P _d	200	mW	
Thermal Resistance Junction to Ambient Air (Note 1)	$R_{\theta JA}$	625	°C/W	
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150	°C	

● Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	75		٧	I _R = 2.5μA
Forward Voltage (Note 2)	V _F	-	0.715 0.855 1.0 1.25	٧	I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA
Reverse Current (Note 2)	IB	0 	2.5 50 30 25	μΑ μΑ μΑ nA	$\begin{array}{c} V_R = 75V \\ V_R = 75V, \ T_j = 150^{\circ}C \\ V_R = 25V, \ T_j = 150^{\circ}C \\ V_R = 20V \end{array}$
Total Capacitance	CT	2 	2.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}	(4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{ x } I_R, R_L = 100 \Omega$



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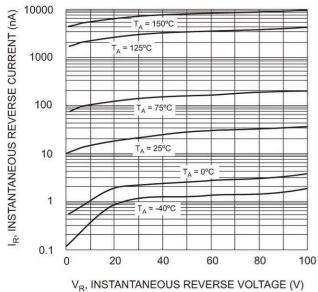
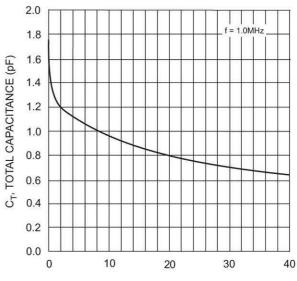
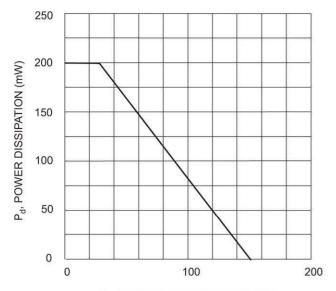


Fig. 2 Typical Reverse Characteristics







T_A, AMBIENT TEMPERATURE (°C) Fig. 4 Power Derating Curve, Total Package

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