



DESCRIPTION

The BAV19WS~ BAV21WS is available in SOD-323 Package

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Available in SOD-323 Package

ORDERING INFORMATION

Package Type	Part Number
SOD-323	BAV19WS
	BAV20WS
	BAV21WS
Note	SPQ: 3,000pcs/Reel
AiT provides all RoHS Compliant Products	



ABSOLUTE MAXIMUM RATINGS

T_A = 25°C

Parameter	Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	120	200	250	V
Reverse Voltage	V _R	100	150	200	V
Average Rectified Forward Current	I _{F(AV)}	200			mA
Forward Continuous Current	I _{FM}	400			mA
Repetitive Peak Forward Current	I _{FRM}	625			mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	2.5			A
		0.5			
Power Dissipation	P _{tot}	200			mW
Operating and Storage Temperature Range	T _J , T _{STG}	-65 ~ +150			°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

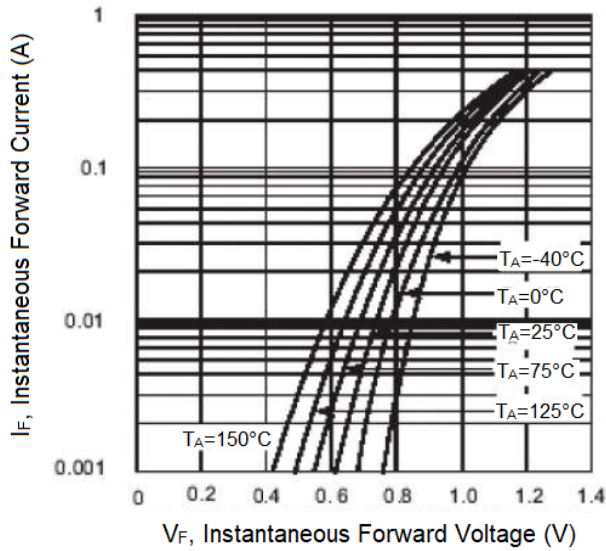
T_A = 25°C

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse Breakdown Voltage	V _{(BR)R}	BAV19WS	120	-	V
		BAV20WS	200		
		BAV21WS	250		
Reverse Current	I _R	V _R =100V	-	100	nA
		V _R =150V			
		V _R =200V			
Forward Voltage	V _F	I _F =100mA	-	1	V
		I _F =200mA		1.25	
Total Capacitance	C _T	V _R =0V, f=1MHz	-	5	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =30mA, I _{RR} =0.1x I _R , R _L =100Ω	-	50	ns

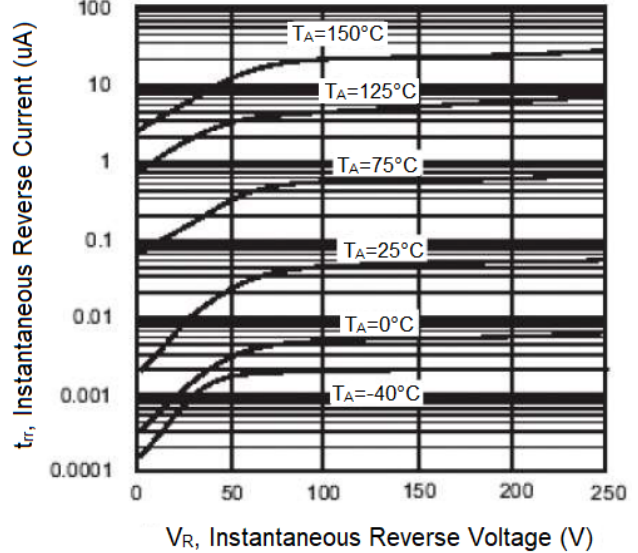


TYPICAL PERFORMANCE CHARACTERISTICS

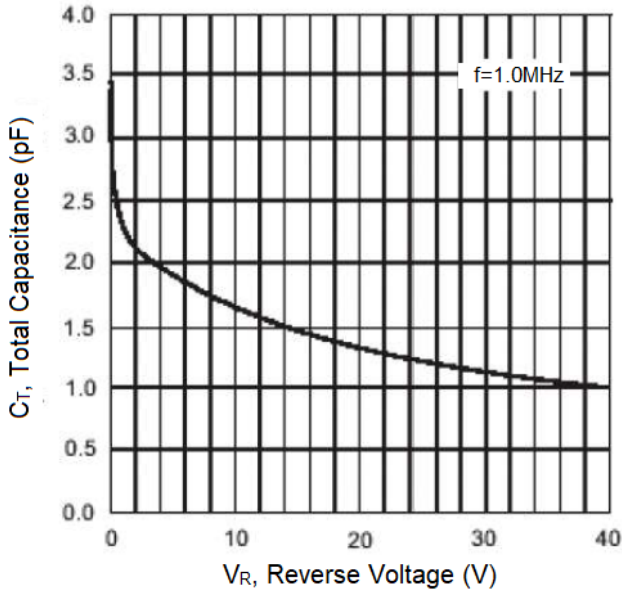
1. Typical Forward Characteristics



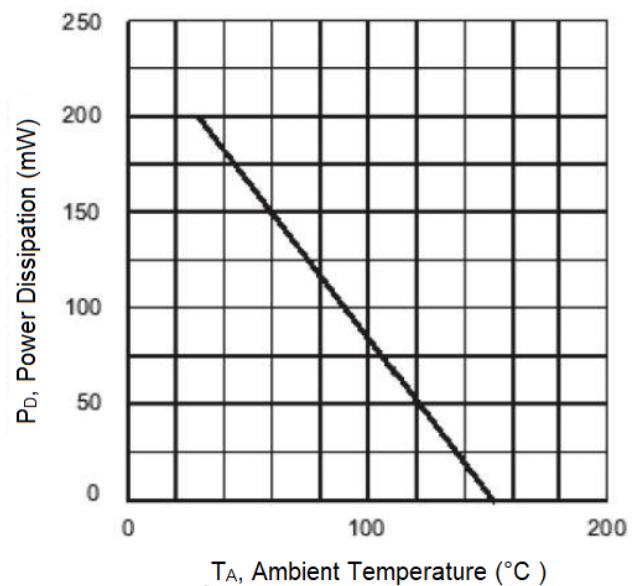
2. Typical Reverse Characteristics



3. Typical Capacitance vs. Reverse Voltage



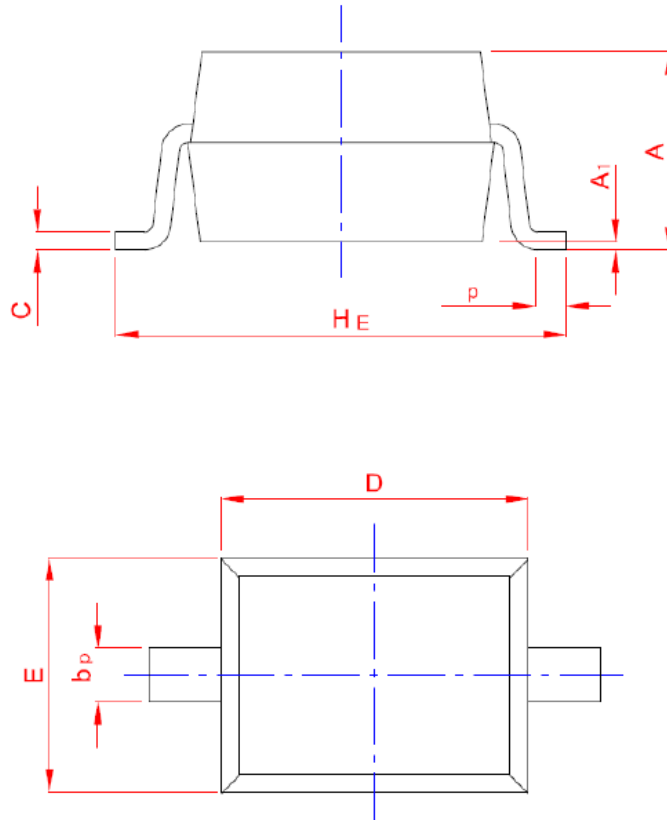
4. Power Derating Curve, Total Package





PACKAGE INFORMATION

Dimension in SOD-323 (Unit: mm)



Symbol	Min	Max
A	0.90	1.20
b _p	0.25	0.40
C	0.10	0.15
D	1.60	1.80
E	1.15	1.35
H _E	2.30	2.80
A1	0.01	0.10
L _p	0.20	0.50



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