

■ Switching Diodes

FEATURES

- ◆ For surface mounted applications
- ◆ Glass Passivated Chip Junction
- ◆ Fast reverse recovery time
- ◆ Ideal for automated placement
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- ◆ Case: SOD-323
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 4.5mg / 0.00016oz

Pinning

1.Cathode	2.Anode
	
SOD-323	

Marking Code

BAV19WS	A8
BAV20WS	T2
BAV21WS	T3

Absolute Maximum Ratings at 25 °C

Parameter		Symbols	BAV19WS	BAV20WS	BAV21WS	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	120	200	250	V
Maximum RMS voltage		V_{RMS}	100	150	200	V
Continuous Forward Current		I_F	250			mA
Repetitive Peak Forward Current		I_{FRM}	625			mA
Non-reptitive Peak Forward Surge Current	at 1s	I_{FSM}	1			A
	at 1ms		3			
	at 1us		9			
Total Power Dissipation		P_{tot}	500			mW
Operating and Storage Temperature Range		T_j, T_{stg}	-55 ~ +150			°C

Characteristics at Ta = 25 °C

Parameter		Symbols	BAV19WS	BAV20WS	BAV21WS	Units
Reverse BreakdownVoltage at IR=100μA		V _{(BR)R}	120	200	250	V
Maximum Forward Voltage	at 100 mA	V _F	1.00			V
	at 200 mA		1.25			
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _a =25°C	I _R	0.1			uA
	T _a =150°C		100			
Typical Junction Capacitance at V _R =4V, f=1MHz		C _j	5			pF
Maximum Reverse Recovery Time		T _{rr}	50			nS

Fig.1 Power Derating Curve

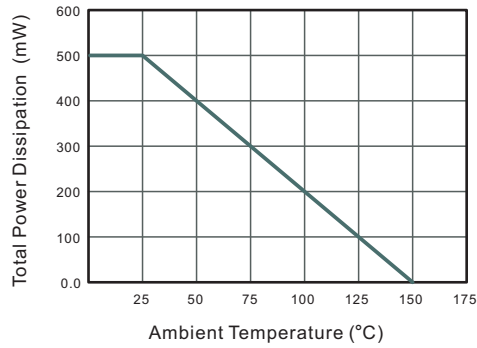


Fig.2 Typical Reverse Characteristics

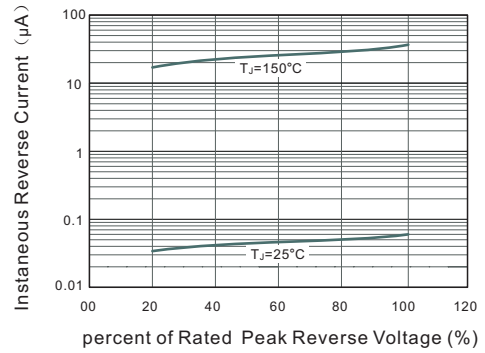


Fig.3 Typical Instaneous Forward Characteristics

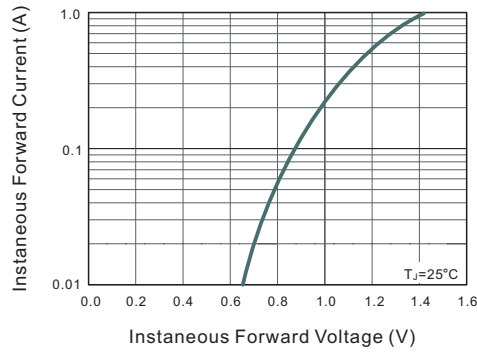
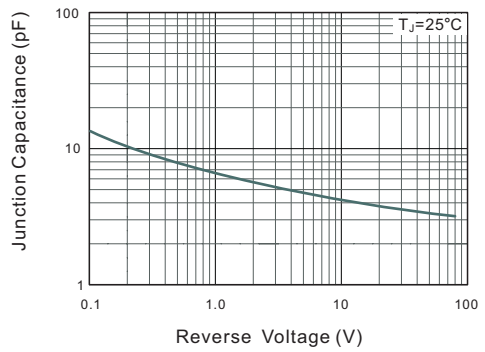


Fig.4 Typical Junction Capacitance



Ordering information

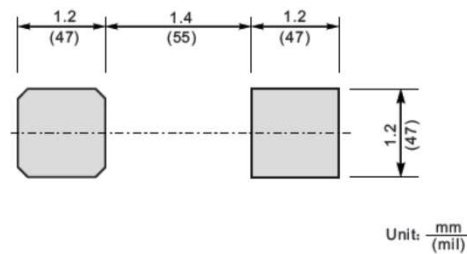
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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