

Features

- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- Moisture Sensitivity Level 1
- RoHS Compliant
- Band Indicates Cathode
- Green EMC

Mechanical Characteristics

- Case: SOD-323 plastic case
- Lead Finish: Matte Tin
- Tape Reel: 3000pcs

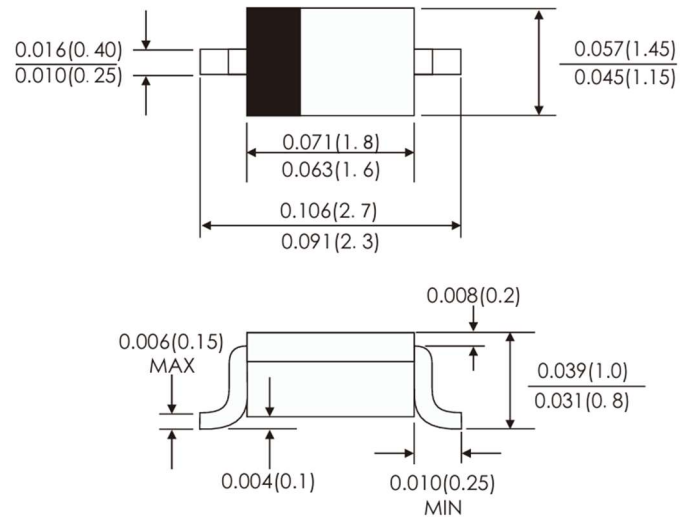
Applications

- High-speed switching
- General-purpose switching

Marking information

- Device Marking Code
 - BAV19WS: A8
 - BAV20WS: T2
 - BAV21WS: T3

SOD-323



Dimensions in inches and (millimeters)

Absolute Maximum Ratings (T=25°C, unless otherwise noted)

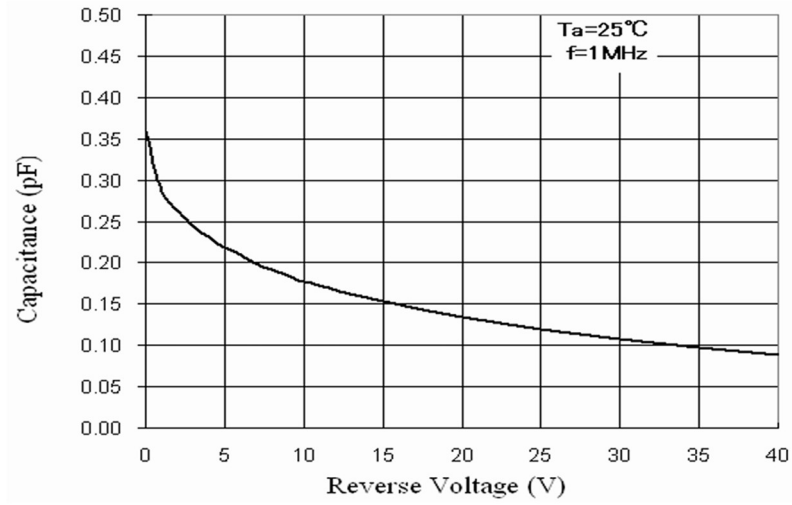
Parameter	Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Peak reverse voltage	V_{RM}	100	150	250	V
Reverse voltage	V_R	120	200	250	V
Average rectified output current	$I_{O(AV)}$	200	200	200	mA
Non-repetitive Peak Forward Current Pulse Width =1.0 second Pulse Width =1.0 μsecond	I_{FSM}		1.0 4.0		A
Power Dissipation	P_D		200		mW
Junction Temperature Range	T_J		-55 ~ +150		°C
Storage Temperature	T_{STG}		-55 ~ +150		°C

Electrical Characteristics (T=25°C, unless otherwise noted)

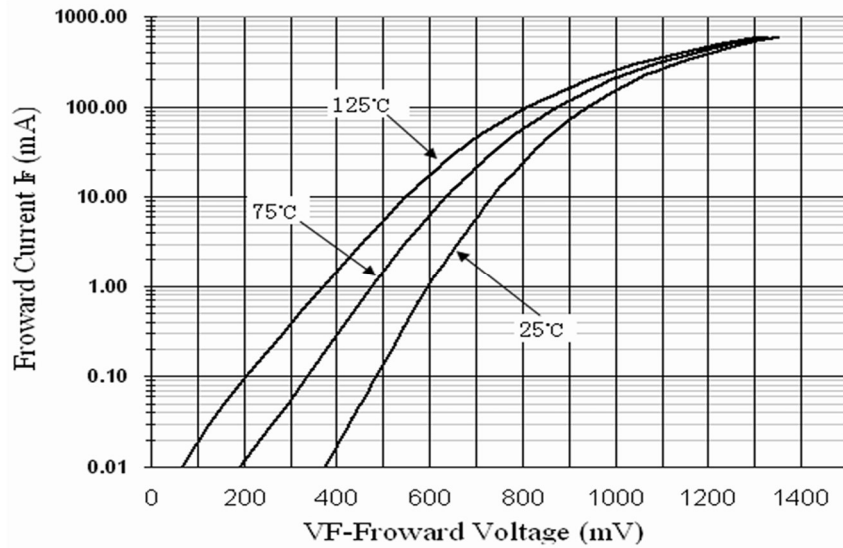
Parameter	Symbol	Test Condition	Min	Max	Unit
Breakdown Voltage	$V_{(BR)R}$	BAV19WS	120		V
		BAV20WS	200		
		BAV21WS	250		
Reverse Leakage Current	I_R	BAV19WS $V_R = 100V$		0.1	μA
		BAV20WS $V_R = 150V$			μA
		BAV21WS $V_R = 200V$			μA
Forward Voltage	V_F	$I_F = 100mA$		1.0	V
		$I_F = 200mA$		1.25	
Capacitance	C	$V_R = 0V, f=1.0MHZ$		1.5	pF
Reverse Recovery Time	t_{rr}	$I_R = I_F = 30mA,$ $I_{RR} = 3mA, R_L = 100\Omega$		50	ns

Typical Characteristics

Capacitance vs Reverse



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage

