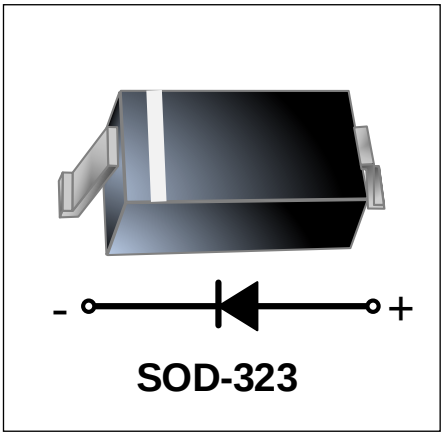
BAV21WS

Switching Diode Arrays

Features

- Fast Switching Devices
- General Purpose Diodes
- RoHS Compliant / Green EMC
- Matte Tin (Sn) Lead Finish
- Cathode Band / Device Marking
- SOD-323 Micro SMD Package



Mechanical Characteristics

- SOD-323 Package
- Marking : Making Code
- RoHS Compliant

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	250	V
Repetitive Peak Reverse Voltage	V_{RRM}	200	
RMS Reverse Voltage	$V_{R(RMS)}$	141	V
Continuous Forward Current	I_O	200	mA
Non-Repetitive Peak Forward Current @ t=1uS	I_{FSM}	4	A
Power Dissipation	P_D	250	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-65~ 150	°C

Electrical Characteristics (T_a=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage Leakage Current	I_R	V_R = 200V	-	-	0.1	μA
Forward Voltage	V_F	I_F = 100mA	-	-	1	V
		I_F = 200mA	-	-	1.25	V
Capacitance	C_d	V_R=0V, f=1MHz	-	4	-	pF
Reverse Breakdown Voltage	V_{BR}	I_R = 100μA	250	-	-	V
Reverse Recovery Time	t_{rr}	I_F = I_R = 30mA, I_{rr}=0.1XI_R,R_L=100Ω	-	45	-	nS

Typical Characteristics

Figure 1. I_F vs. V_F

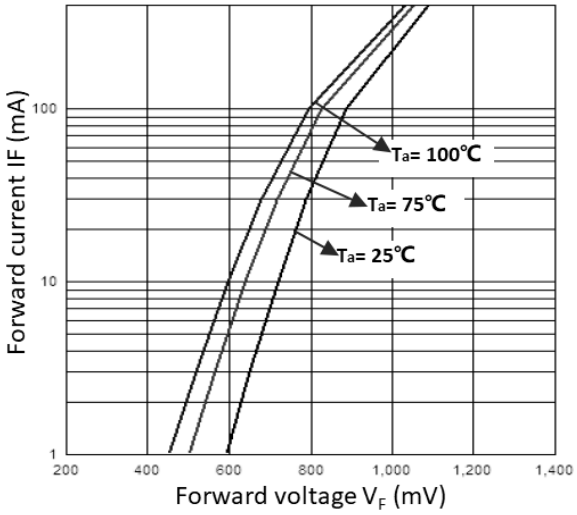


Figure 2. I_R vs. V_R

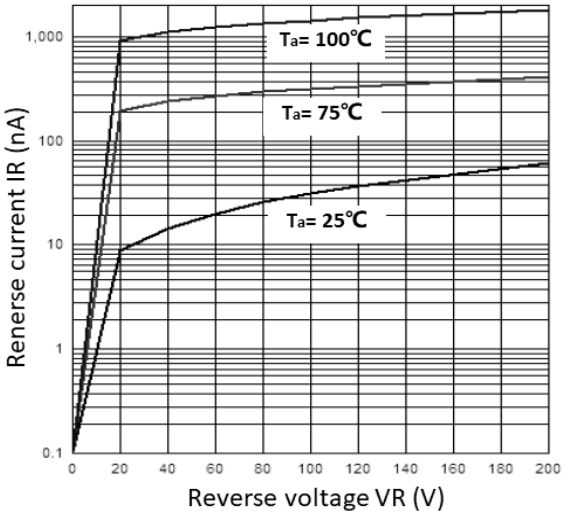


Figure 3. Capacitance Characteristics

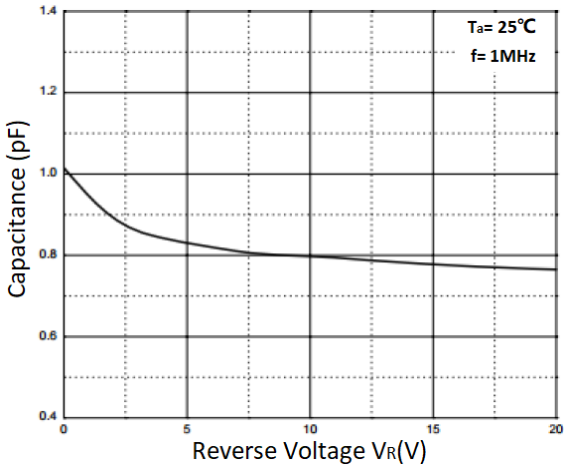
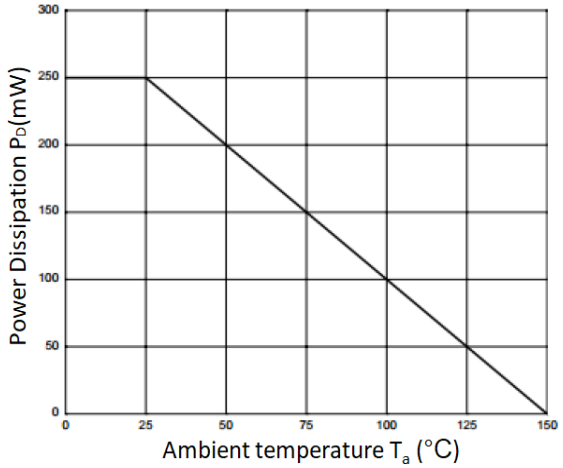
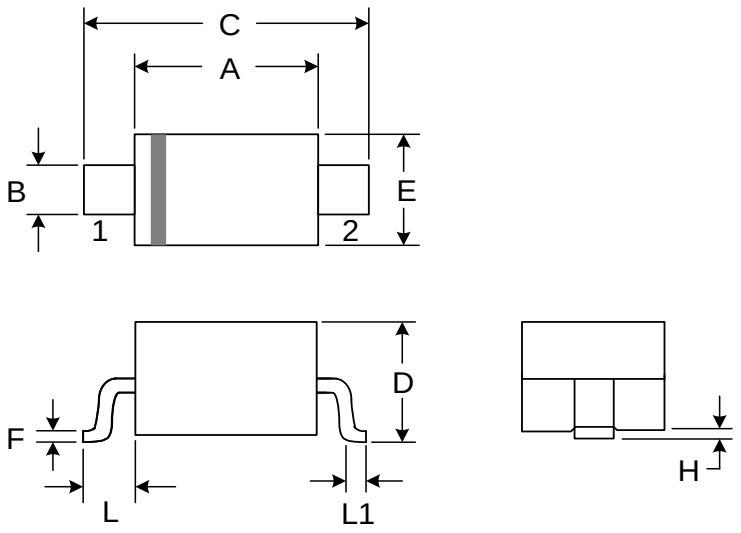


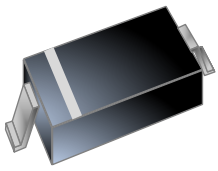
Figure 4. Power Derating Curve



Outline Drawing – SOD-323

PACKAGE OUTLINE

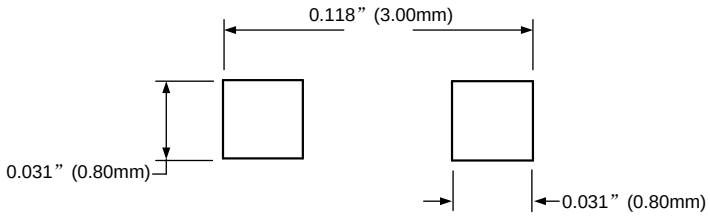




SOD-323

DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.80	0.063	0.071
B	0.25	0.35	0.010	0.014
C	2.50	2.70	0.098	0.106
D	0.80	1.00	0.000	0.039
E	1.20	1.40	0.047	0.055
F	0.08	0.15	0.003	0.006
L	0.475 REF		0.019REF	
L1	0.25	0.40	0.010	0.016
H	0.00	0.10	0.000	0.004

MOUNTING PAD



Notes

1. Controlling Dimensions in Millimeters.
2. Dimensions are exclusive of mold flash and metal burrs.

Marking Codes

Part Number	BAV21WS
Marking Code	T3

Package Information

Qty：3k/Reel

CONTACT INFORMATION

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Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.