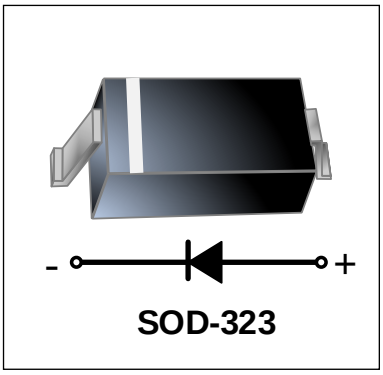
BAV3004D

Fast Recovery Diode

Features

- Fast Switching Devices
- SOD323 Thin SMD Package
- RoHS Compliant / Green EMC
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking
- Moisture Level Sensitivity



SOD-323

Applications

- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

Absolute Maximum Rating (T_a=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	350	V
Forward Current	I_F	225	mA
Non-repetitive Peak Forward Surge Current@t=1.0s	I_{FSM}	1.0	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	℃/W
Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-55 to +150	℃

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Electrical Characteristics (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_R	I_R = 50μA	350			V
Forward Voltage	V_F	I_F = 20mA	-	-	0.87	V
		I_F = 100mA	-	-	1.00	
		I_F = 200mA	-	-	1.25	
Reverse Current	I_R	V_R = 240V(T_a=25°C)	-	-	0.1	μA
		V_R = 240V(T_a=150°C)	-	-	100	μA
Diode Capacitance	C_D	V_R =0V,f=1MHz	-	-	5.0	pF
Reverse Recovery Time	t_{rr}	I_F=I_R=30mA,I_{rr}=0.1I_R, R_L=100Ω	-	-	50	ns

Typical Characteristics

Fig 1. I_F vs. V_F

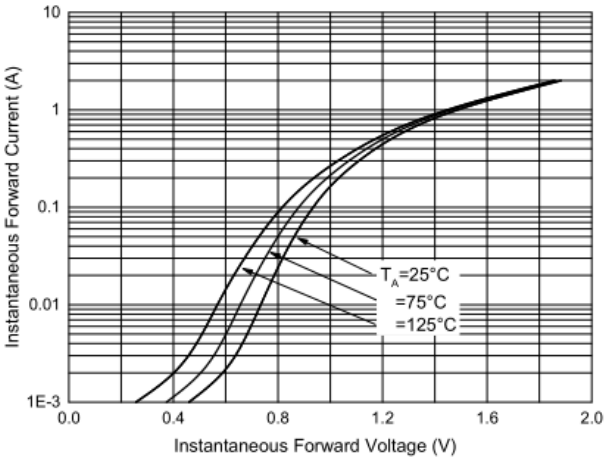
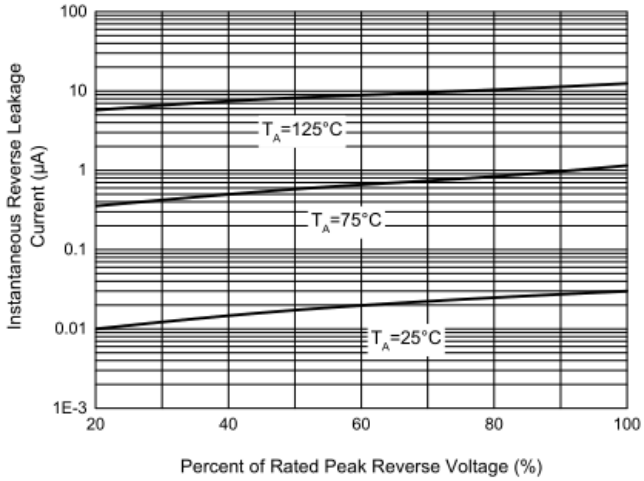
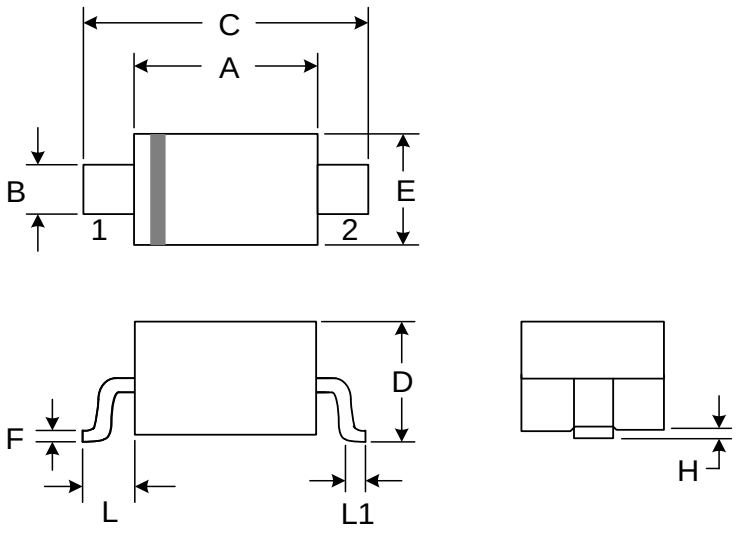


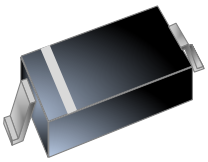
Fig 2. I_R vs. V_R



Outline Drawing – SOD-323

PACKAGE OUTLINE



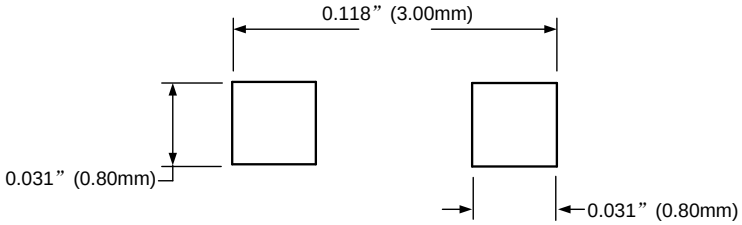


SOD-323

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	BAV3004D
Marking Code	4P

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.