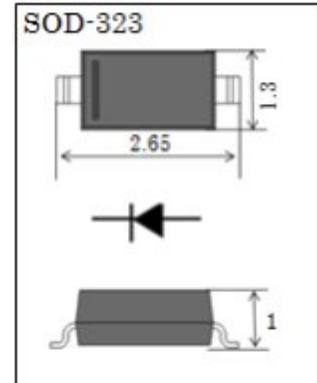


- General purpose diodes
- Fast switching devices
- SOD323 Thin SMD package
- RoHS compliant / Green EMC
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking

Device Marking Code	
BAV3004WS	4P



Absolute Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V_{RM}	Non-Repetitive Peak Reverse Voltage	350	V
V_{RRM}	Repetitive Peak Reverse Voltage	350	V
$V_{R(RMS)}$	RMS Reverse Voltage	300	V
I_{FM}	Forward Continuous Current	225	mA
I_{FSM}	Repetitive Peak Forward Current	625	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current (@t=1.0us) (@t=1.0s)	4.0	A
		1.0	A
P_D	Power Dissipation	400	mW
T_J	Junction Temperature	150	°C
R_{JA}	Thermal Resistance Junction to Ambient Air	305	°C/W
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Conditions	Min	Max	Units
V_R	Reverse Breakdown Voltage	$I_R = 150\mu A$	350		V
V_F	Forward Voltage	$I_F = 20mA$		0.87	V
		$I_F = 100mA$		1.00	V
		$I_F = 200mA$		1.25	V
I_R	Reverse current	$V_R = 240V (25^\circ C)$		100	nA
		$V_R = 240V (150^\circ C)$		100	uA
C_T	Capacitance	$V_R = 0V, f = 1MHz$		5.0	pF
t_{rr}	Reverse Recovery Time	$I_F = I_R = 30mA,$ $I_{rr} = 0.1 \cdot I_R, R_L = 100\Omega$		50	ns

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

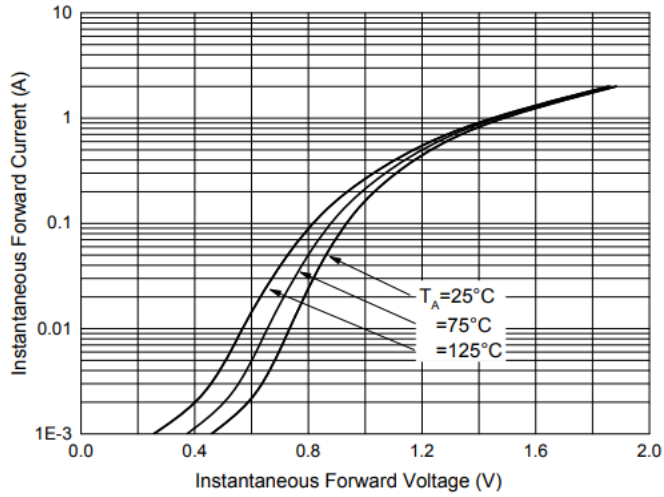


Fig. 2 - Typical Reverse Leakage Characteristics

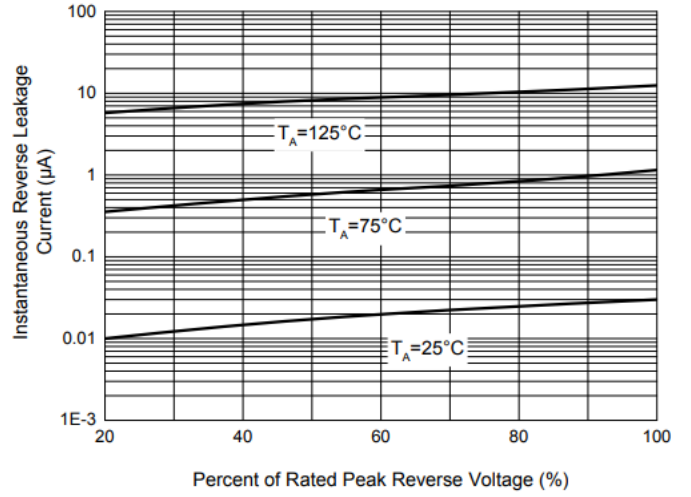
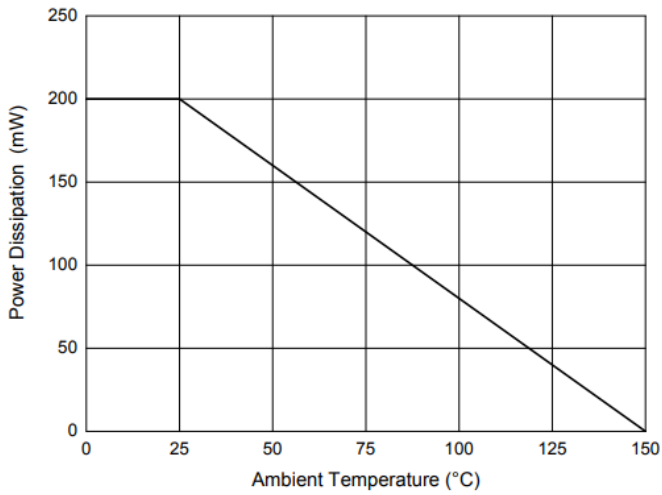


Fig. 3 - Power Derating Curve



Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAV3004WS	SOD323	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

Package Dimensions

