

**Features**

- Low Leakage Current
- Fast Switching Speed
- High Reverse Breakdown Voltage
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

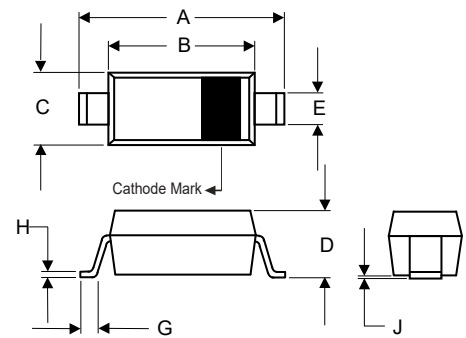
MCC Part Number	Device Marking
BAV3004WS	4P

Parameter	Symbol	Value
DC Reverse Voltage	$V_R$	300V
Peak Repetitive Reverse Voltage	$V_{RRM}$	350V
RMS Reverse Voltage	$V_{R(RMS)}$	210V
Forward Continuous Current	$I_{FM}$	225mA
Repetitive Peak Forward Current	$I_{FRM}$	625mA
Peak Forward Surge Current (t=1s)	$I_{FSM}$	1A
(t=1µs)		4A
Power Dissipation	$P_D$	200mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

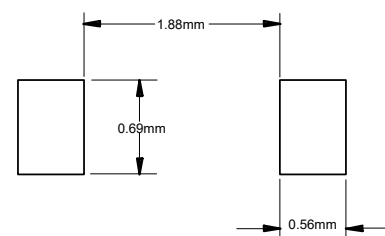
**200mW Low Leakage Diodes**

**SOD-323**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

**Suggested Solder Pad Layout**



**Electrical Characteristics @ 25°C (Unless Otherwise Specified)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{BR}$	$I_R=150\mu A$	350			V
Forward Voltage	$V_F$	$I_F=20mA$			0.87	V
		$I_F=100mA$			1	V
		$I_F=200mA$			1.25	V
Reverse Current	$I_R$	$V_R=240V$			100	nA
		$V_R=240V, T_J=150^\circ C$			100	$\mu A$
Junction Capacitance	$C_J$	$V_R = 0V, f = 1MHz$			5	pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=30mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$			50	ns

## Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

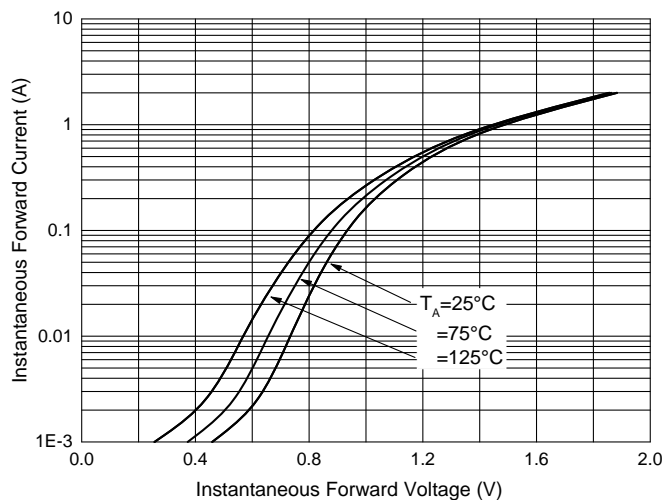


Fig. 2 - Typical Reverse Leakage Characteristics

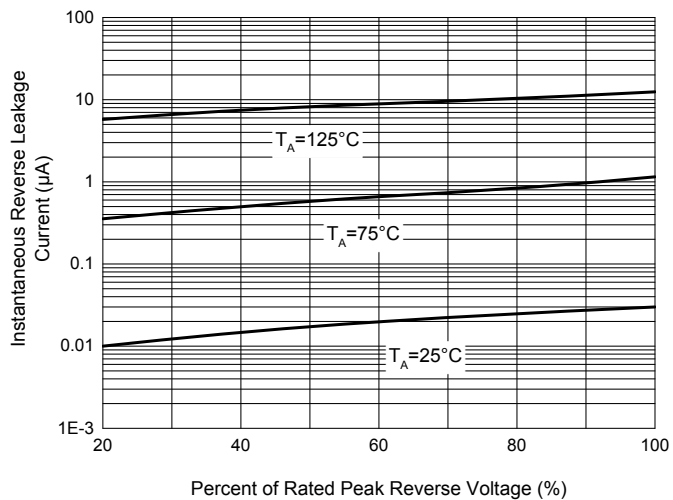
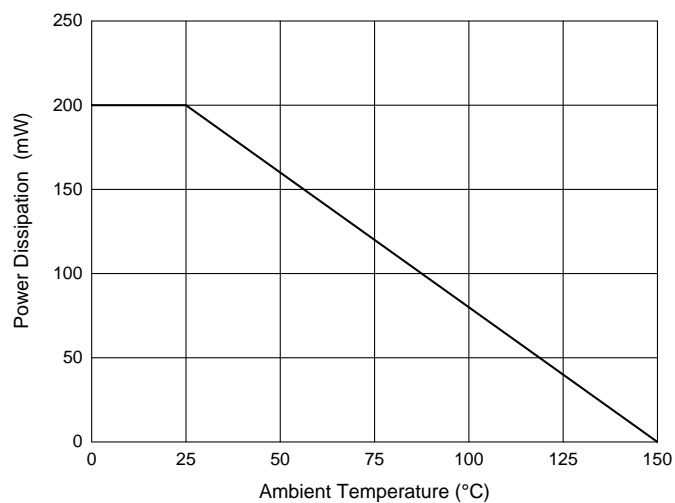


Fig. 3 - Power Derating Curve



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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