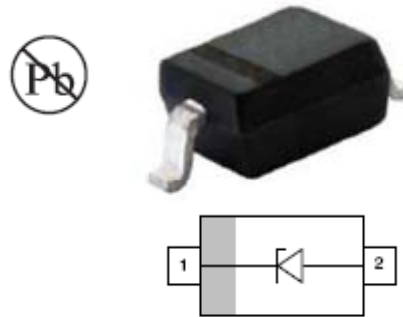


Features

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

Applications

- Surface mount fast switching diode



SOD-323

Ordering Information

Type NO.	Marking	Package Code
BAV19WS	A8	SOD-323
BAV20WS	T2	SOD-323
BAV21WS	T3	SOD-323

Maximum Ratings @T_A=25°C unless otherwise specified

Items		Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Repetitive Peak Reverse Voltage		V _{RRM}	120	200	250	V
Working Peak Reverse Voltage		V _{RWM}	100	150	200	V
DC Reverse Voltage		V _R				
RMS Reverse Voltage		V _{R(RMS)}	71	106	141	V
Average Rectified Output Current		I _O	200			mA
Non-Repetitive Peak Forward Surge Current	@ t=1.0μS	I _{FSM}	2.5			A
	@ t=1.0S		0.5			
Repetitive Peak Forward Surge Current		I _{FRM}	625			mA
Power Dissipation		P _d	200			mW
Thermal Resistance Junction to Ambient Air		R _{θJA}	625			°C / W
Operating and Storage Temperature Rage		T _J , T _{STG}	−65 to +150			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	MaX	Unit	Test Condition
Reverse Breakdown Voltage BAV19WS BAV20WS BAV21WS	V _{(BR)R}	120 200 250		V	I _R =100uA
Forward Voltage	V _{FM}	—	1.0 1.25	V	I _F =100mA I _F =200mA
Reverse Current BAV19WS BAV20WS BAV21WS	I _R	—	0.1 0.1 0.1	uA	V _R =100V V _R =150V V _R =200V
Capacitance between terminals	C _T	—	5	pF	V _R =0, f=1.0MHz
Reverse Recovery Time	t _{rr}	—	50	ns	I _F =1 _R =30mA I _{rr} =0.1×I _R , R _L =100 Ω

Typical Characteristics

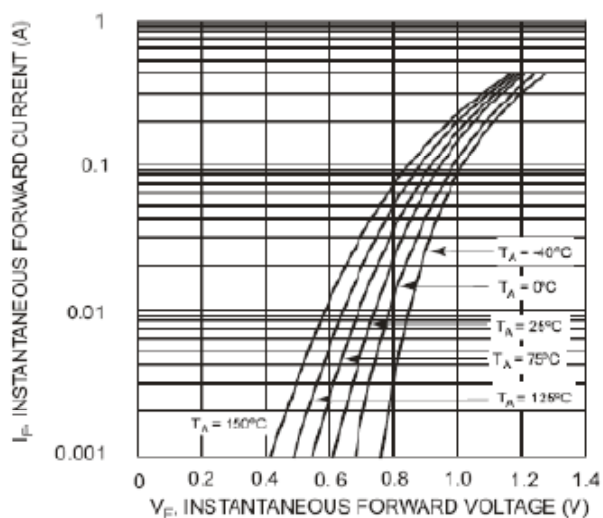


Fig. 1 Typical Forward Characteristics

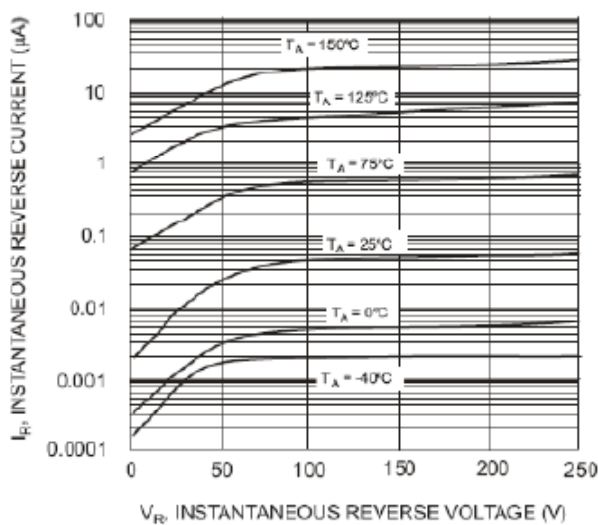


Fig. 2 Typical Reverse Characteristics

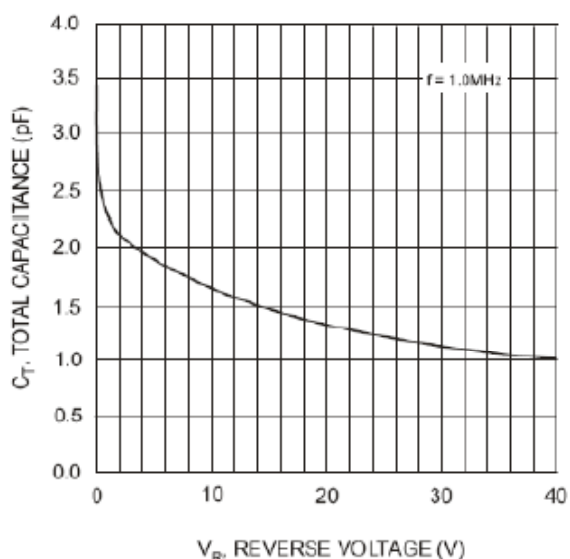


Fig. 3 Typical Capacitance vs. Reverse Voltage

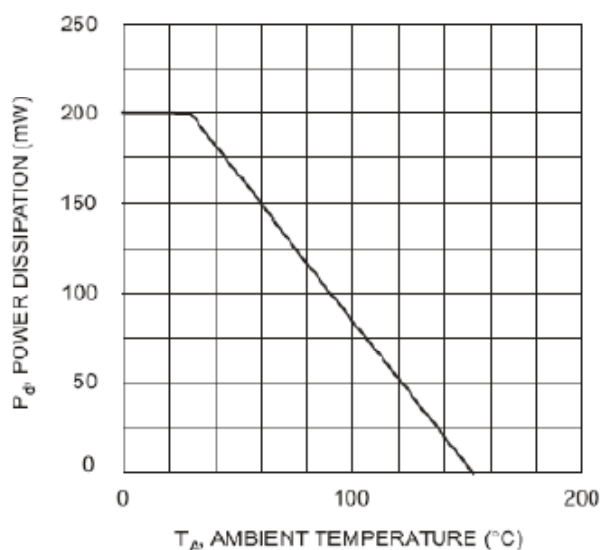
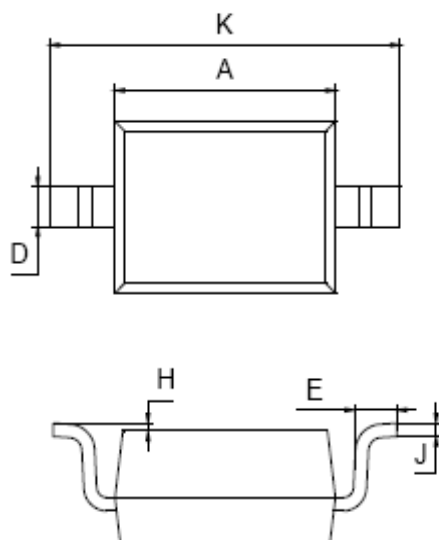


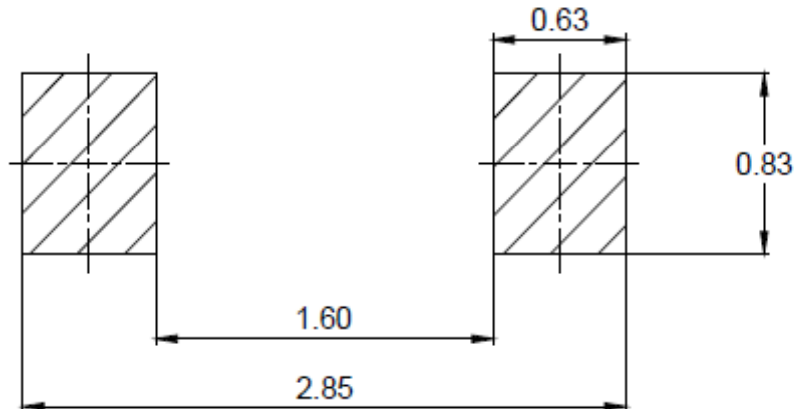
Fig. 4 Power Derating Curve, Total Package

Plastic surface mounted package



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.9 Typical	
D	0.30 Typical	
E	0.22	0.42
H	0.02	0.1
J	0.1 Typical	
K	2.55	2.75
All Dimensions in mm		

Soldering Footprint



Unit : mm

Package Information

Decice	Package	Shipping
BAV19WS/20WS/21WS	SOD-323	3000/Tape & Reel

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