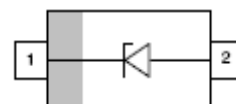


Features

- Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications
- High conductance



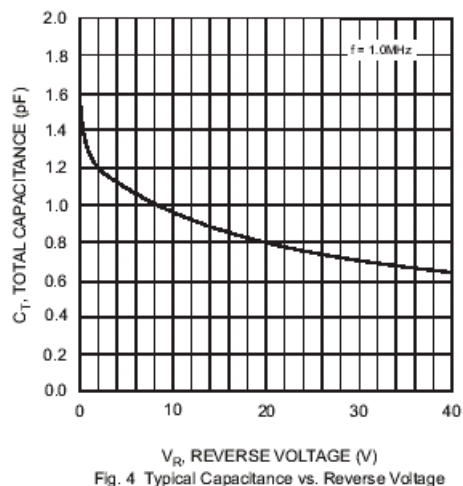
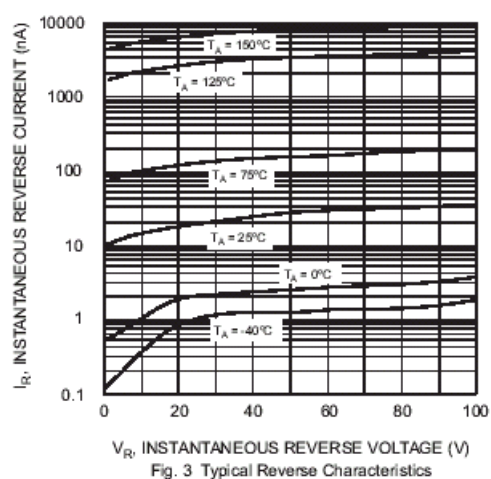
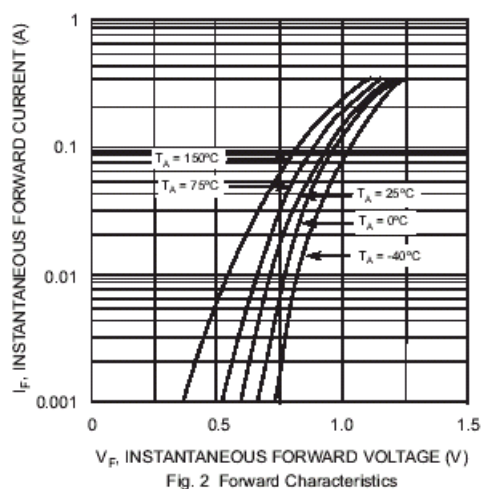
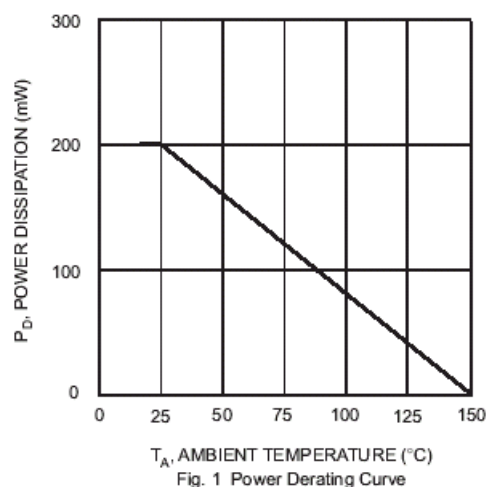
SOD-323

Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

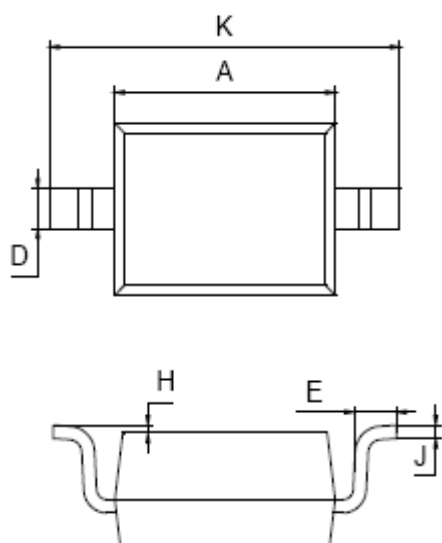
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Output Current	I_O	150	mA
Forward Continuous Current	I_{FM}	300	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	2	A
at $t = 1\text{ }\mu\text{s}$		1	
at $t = 1\text{ s}$			
Power Dissipation	P_{tot}	200	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	625	$^{\circ}\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	- 65 to + 150	$^{\circ}\text{C}$

Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1\text{ }\mu\text{A}$	$V_{(BR)R}$	75	-	V
Peak Reverse Current at $V_R = 20\text{ V}$ at $V_R = 75\text{ V}$ at $V_R = 25\text{ V}, T_j = 150\text{ }^{\circ}\text{C}$ at $V_R = 75\text{ V}, T_j = 150\text{ }^{\circ}\text{C}$	I_R	-	25	nA
		-	1	μA
		-	30	μA
		-	50	μA
Forward Voltage at $I_F = 1\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 50\text{ mA}$ at $I_F = 150\text{ mA}$	V_F	-	0.715	V
		-	0.855	
		-	1	
		-	1.25	
Total Capacitance at $V_R = 0\text{ V}, f = 1\text{ MHz}$	C_T	-	2	pF
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}, I_{RR} = 0.1 \times I_R, R_L = 100\text{ }\Omega$	t_{rr}	-	4	ns

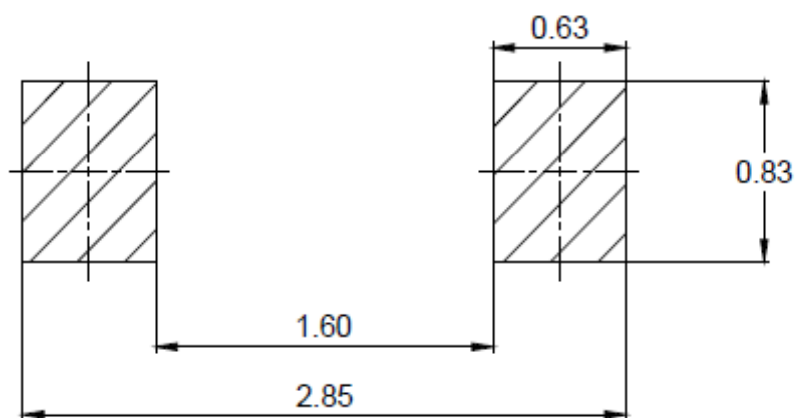


Plastic surface mounted package



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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