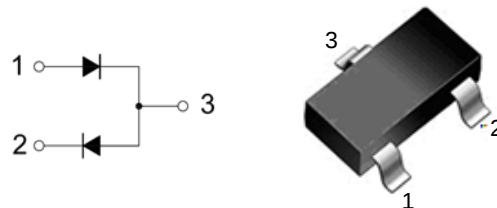


SOT-323 Plastic-Encapsulate Diodes

• Features

- For high-speed switching applications
- Connected in series



SOT-323

• MAXIMUM RATINGS (T_C=25°C)

Parameter	Symbol	Limit	Unit
Reverse Voltage	V _R	75	V
Forward Current	I _F	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	A
Power Dissipation	P _D	200	mW
Thermal Resistance Junction to Ambient	R _{θJA}	625	°C/W
Operation Junction and Storage Temperature Range	T _J , T _{STG}	-55~+150	°C

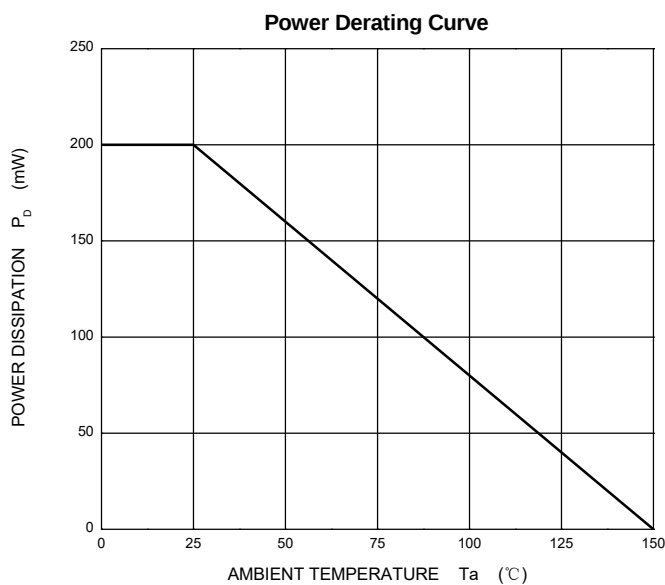
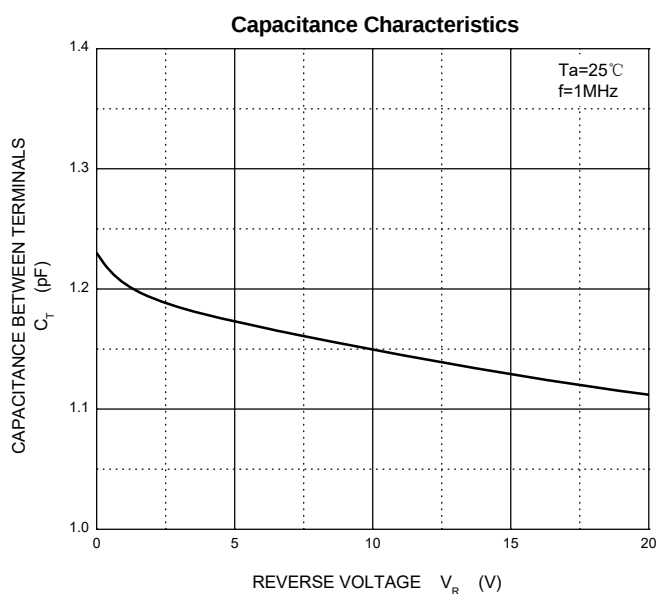
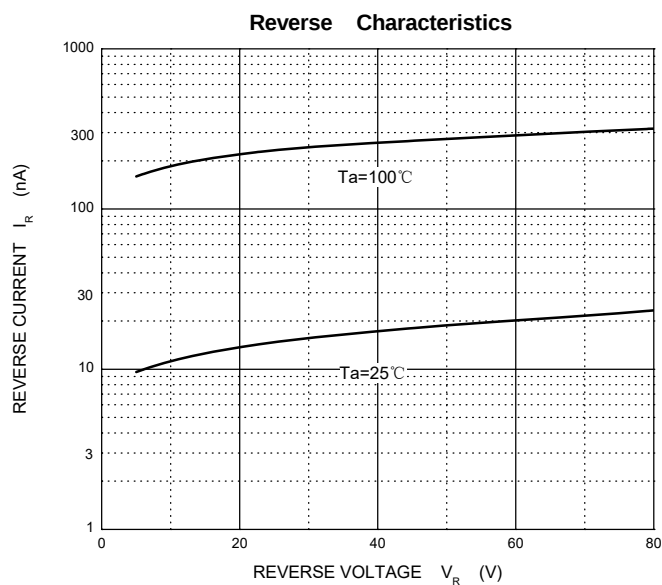
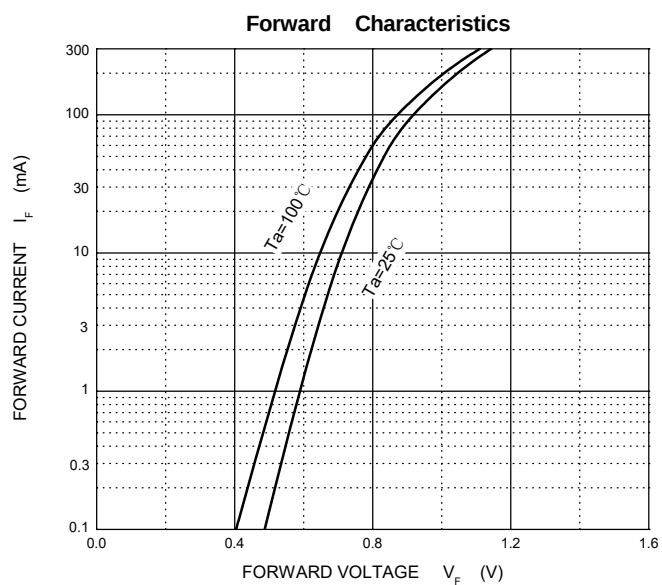
• ELECTRICAL CHARACTERISTICS (T_a=25°C)

Parameter	Symbol	conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 100μA	75		V
Reverse voltage leakage current	I _{R1}	V _R =75V		2.5	μA
	I _{R2}	V _R =25V		25	nA
Forward voltage	V _F	I _F =1mA I _F =10mA I _F =50mA I _F =150mA		715 855 1000 1250	mV
Diode capacitance	C _D	V _R =0 f=1MHz		2	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA I _{rr} =0.1×I _R , R _L =100Ω		4	ns

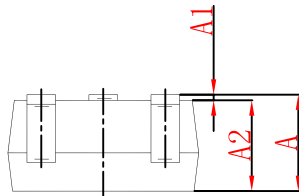
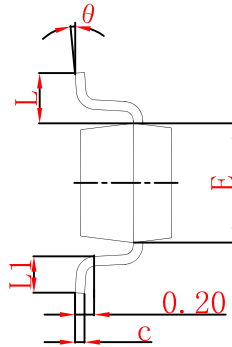
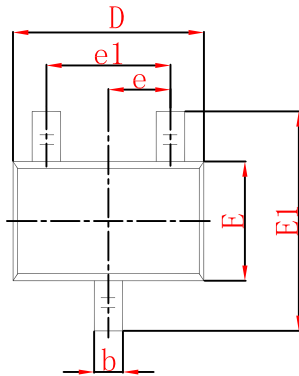
• Ordering Information:

Part NO.	BAV99W
Marking	A7
Packing Information	REEL TAPE
Basic ordering unit (pcs)	3000

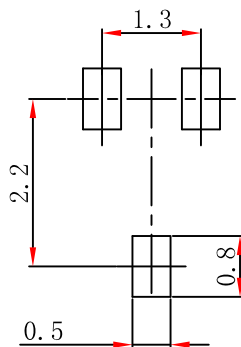
• Typical Characteristics



SOT-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.