

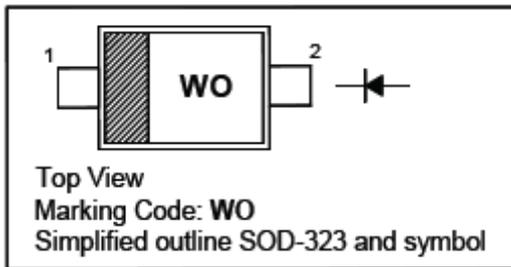
HIGH VOLTAGE SWITCHING DIODE

FEATURES

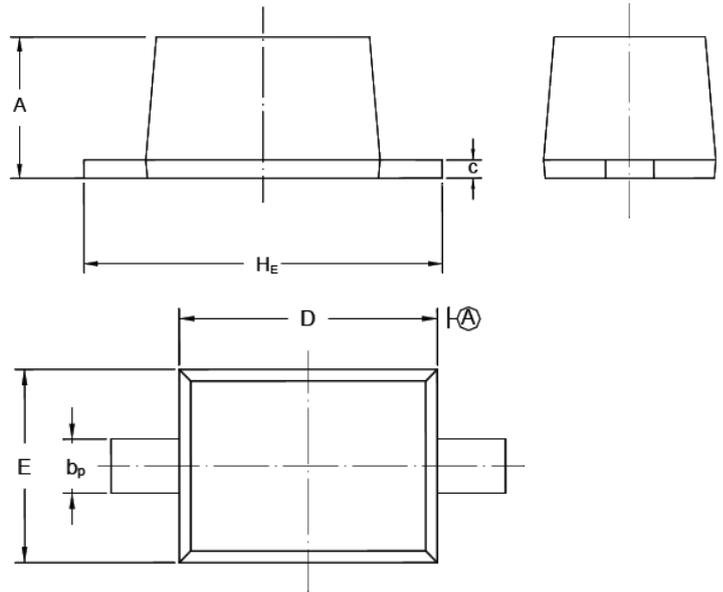
- Fast switching speed
- surface mount package ideally suited for automatic insertion

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



SOD-323



UNIT	A	b _p	C	D	E	H _E
mm	1.10 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30

Dimensions in inches and (millimeters)

Electrical Characteristics @ 25 °C Unless Otherwise Specified

Parameter	Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Reverse Voltage	V _R	100	150	200	V
Repetitive Peak Reverse Voltage	V _{RRM}	120	200	250	V
Minimum Reverse Breakdown Voltage @I _R =100uA	V _{(BR)R}	120	200	250	V
Average Rectified Forward Current	I _{F(AV)}	200			mA
Forward Continuous Current	I _{FM}	400.0			mA
Non-Repetitive Peak Forward Surge Current @t=1us @t=1s	I _{FSM}	2.5 0.5			A
Maximum Forward Voltage (I _F = 100mA) (I _F = 200mA)	V _F	1 1.25			V
Repetitive Peak Forward Current at f>50Hz, T _{amb} =25°C ⁽¹⁾	I _{FRM}	625			mA
Power Dissipation T _{amb} =25°C(1)	P _{TOT}	200			mW
Maximum Leakage Current @T _J =25°C	I _R	100			nA
Total Capacitance	C _T	5			pF
Maximum Reverse Recovery Time (I _F =30mA, I _R =30mA, I _{rr} =3mA RL=100Ω)	t _{rr}	50			nS
Operating Junction Temperature	T _J	-65 to +150			°C
Storage Temperature	T _{STG}	-65 to +150			°C

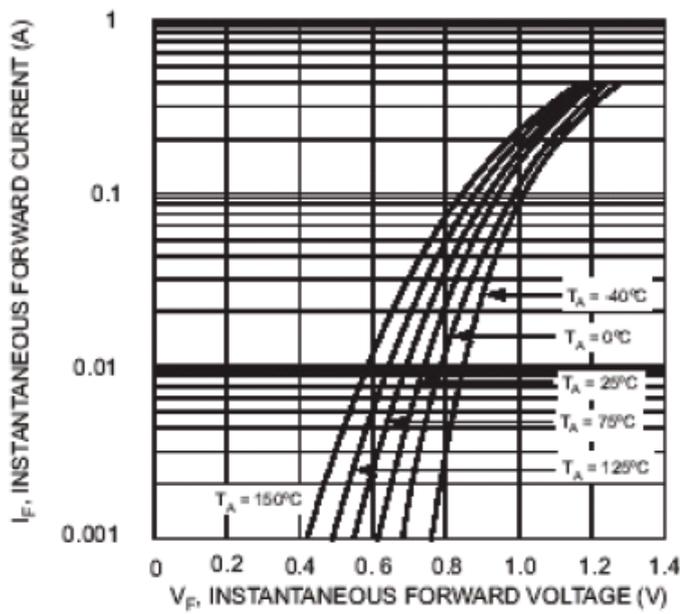


Fig. 1 Typical Forward Characteristics

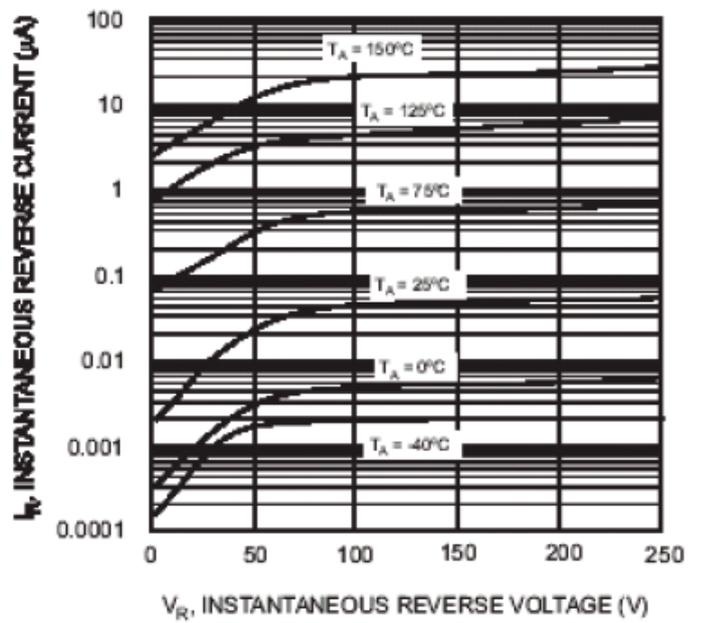


Fig. 2 Typical Reverse Characteristics

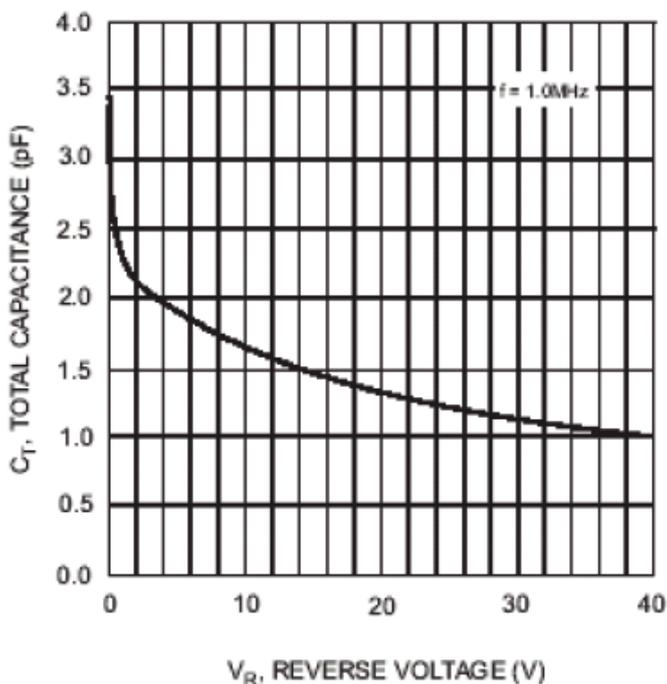


Fig. 3 Typical Capacitance vs. Reverse Voltage

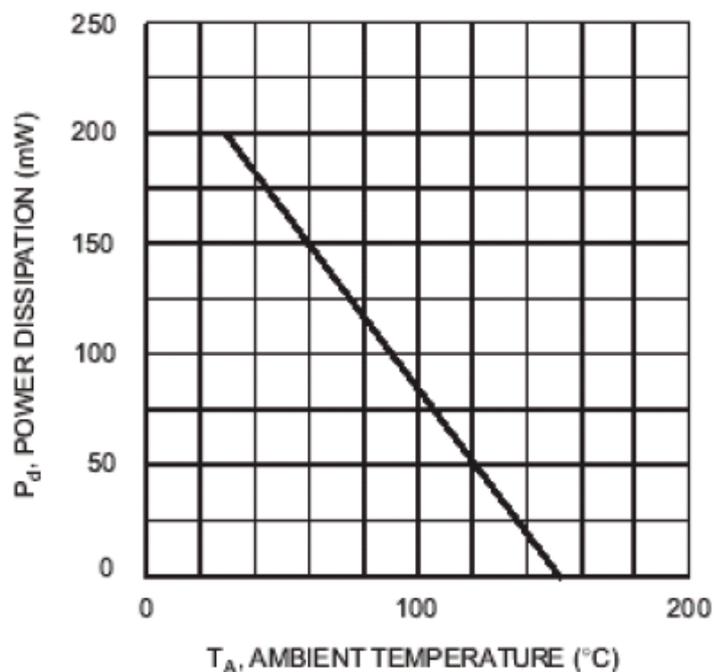


Fig. 4 Power Derating Curve, Total Package