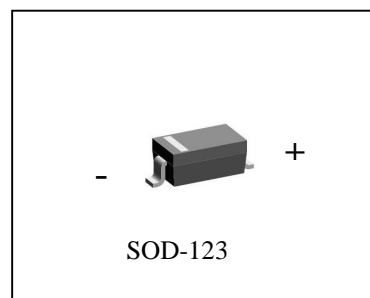


FAST SWITCHING DIODES
FEATURES

Fast switching speed

Surface mount package ideally suited for automatic insertion

MARKING: BAV19W : A8 BAV20W: T2 BAV21W: T3

BAV19W/20W/21W


MAXIMUM RATINGS (TA=25 °C unless otherwise noted)

Parameter	Symbol	BAV19W	BAV20W	BAV21 W	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	120	200	250	V
Peak Repetitive Peak reverse voltage	V _{RRM}	100	150	250	V
Working Peak Reverse Voltage	V _{RRM}				
DC Blocking	V _R				
RMS Reverse Voltage	V _{R(RMS)}	71	106	141	V
Forward Continuous Current	I _{FM}	400			mA
Average Rectified Output Current	I _O	200			mA
Peak forward surge current @=1.0ms @=1.0s	I _{FSM}	2.5			A
	I _{FSM}	0.5			A
Repetitive Peak Forward Current	I _{FRM}	625			mA
Power Dissipation	P _d	500			mW
Ambient Resistance Junction to Ambient	R _{JA}	250			°C/W
Storage temperature	T _{STG}	-65-125			°C

 ELECTRICAL CHARACTERISTICS (T_{amb}=25 °C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _{F1}			1.0	V	I _F =100mA
	V _{F2}			1.25	V	I _F =200mA
Reverse current	I _R			0.1	μA	V _R =100V
				0.1	μA	V _R =150V
				0.1	μA	V _R =200V
Capacitance between terminals	C _T			5	pF	V _R =0,f=1MHz
Reverse Recovery Time	t _{rr}			50	ns	I _R =I _F =30mA I _{rr} =0.1*I _R ,R _L =100

BAV19W/20W/21W Typical Characteristics

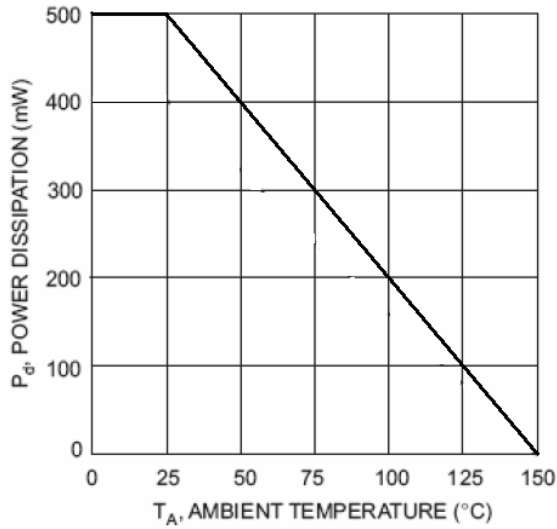


Fig. 1 Power Derating Curve

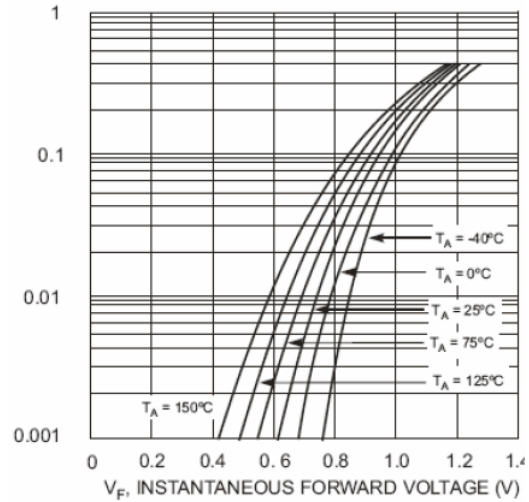


Fig. 2 Typical Forward Characteristics

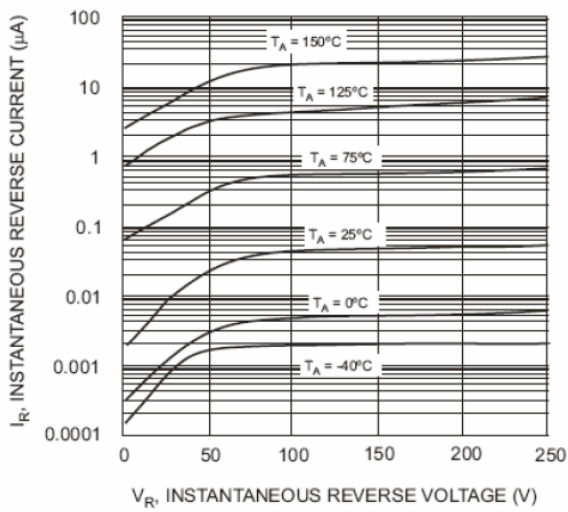


Fig. 3 Typical Reverse Characteristics

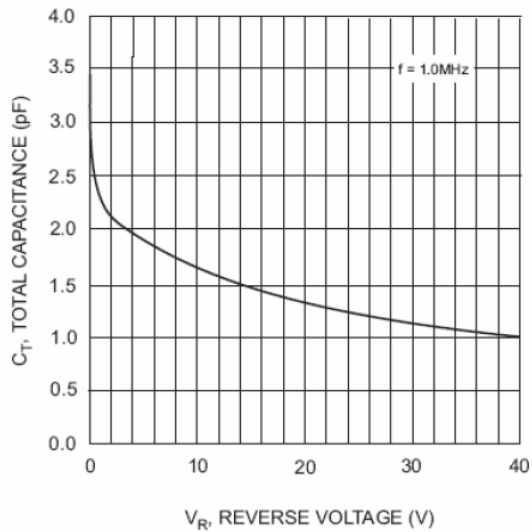


Fig. 4 Typical Capacitance vs. Reverse Voltage