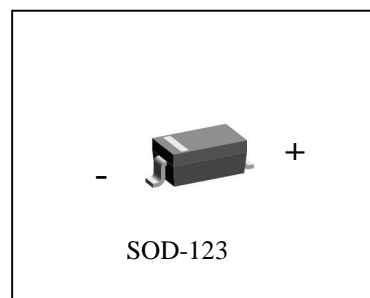


FAST SWITCHING DIODES
FEATURES

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	VRM	120	200	250	V
Peak Repetitive Peak reverse voltage	VRRM	100	150	250	V
Working Peak Reverse Voltage	VRRM				
DC Blocking	VR				
RMS Reverse Voltage	VR(RMS)	71	106	141	V
Forward Continuous Current	IFM	400			mA
Average Rectified Output Current	IO	200			mA
Peak forward surge current @=1.0ms @=1.0s	IFSM	2.5			A
	IFSM	0.5			A
Repetitive Peak Forward Current	IFRM	625			mA
Power Dissipation	Pd	500			mW
Ambient Resistance Junction to Ambient	R JA	250			°C/W
Storage temperature	TSTG	-65-125			°C

ELECTRICAL CHARACTERISTICS (Tamb=25 °C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	VF1			1.0	V	IF=100mA
	VF2			1.25	V	IF=200mA
Reverse current	BAV19W	IR		0.1	μA	VR=100V
	BAV20W	IR		0.1	μA	VR=150V
	BAV21W	IR		0.1	μA	VR=200V
Capacitance between terminals	CT			5	pF	VR=0,f=1MHz
Reverse Recovery Time	trr			50	ns	IR=IF=30mA Irr=0.1*IR,RL=100

BAV19W/20W/21W Typical Characteristics

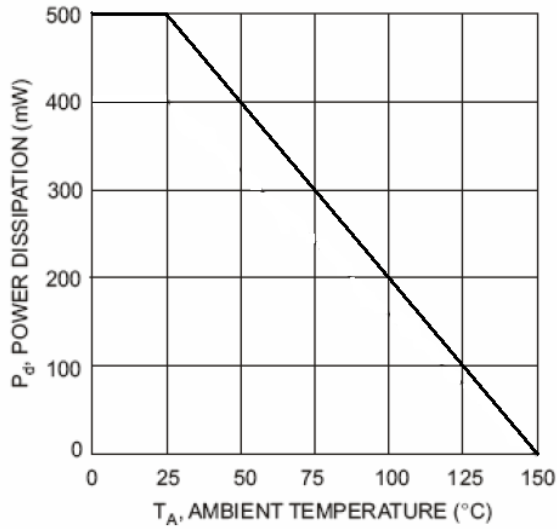


Fig. 1 Power Derating Curve

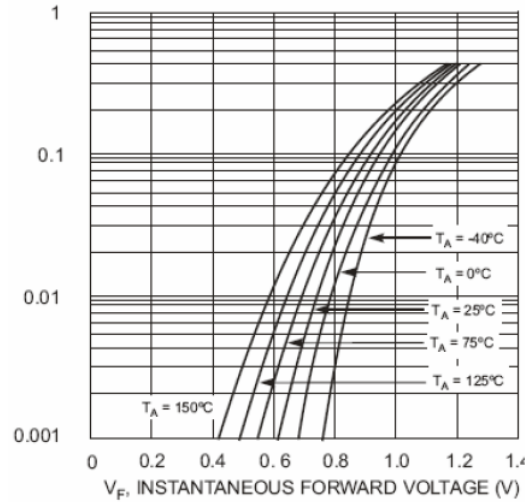


Fig. 2 Typical Forward Characteristics

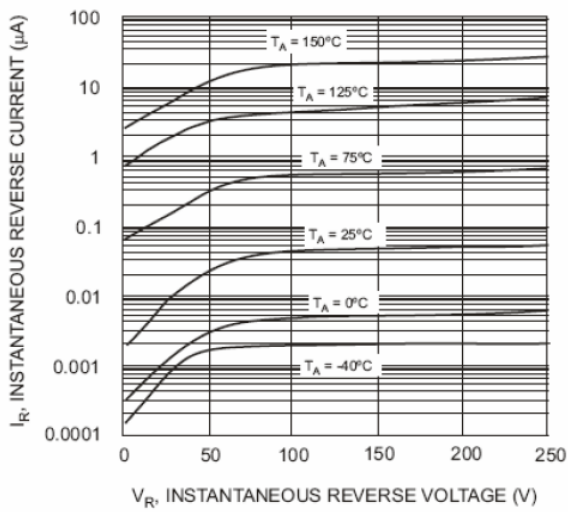


Fig. 3 Typical Reverse Characteristics

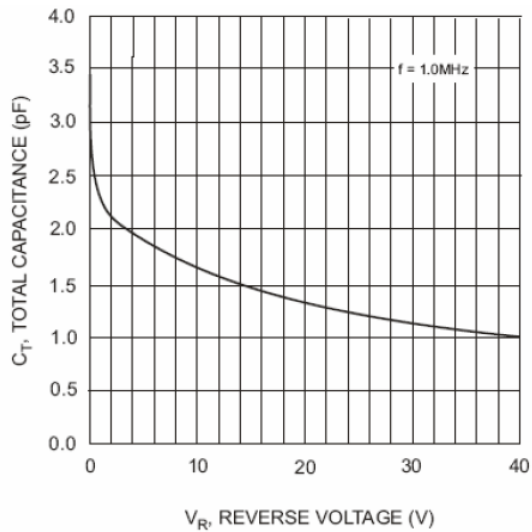


Fig. 4 Typical Capacitance vs. Reverse Voltage