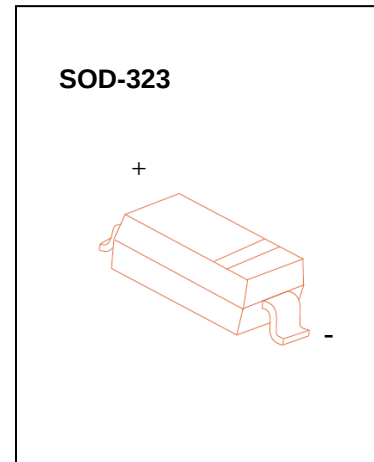




FEATURES

Fast Switching Speed
 Surface Mount Package Ideally Suited for
 Automatic Insertion
 For General Purpose Switching Applications
 High Conductance

MARKING: BAV19WS : A8
 BAV20WS : T2
 BAV21WS : T3



Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

Parameter	Symbo	BAV19WS	BAV20WS	BAV21WS	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	120	200	250	V
Peak Repetitive Peak reverse voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	100	150	250	V
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	71	106	141	V
Average Rectified Output Current	I _O	200			mA
Peak forward surge current @=1.0ms	I _{FSM}	2.0			A
@=1.0s		0.5			
Repetitive Peak Forward Current	I _{FRM}	625			mA
Power Dissipation	P _d	250			mW
Thermal Resistance Junction to Ambient	R _{θJA}	500			°C/W
Junction temperature	T _j	150			°C
Storage temperature	T _{STG}	-65~+150			°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _{F1}			1.0	V	I _F =0.1A
	V _{F2}			1.25		I _F =0.2A
Reverse current BAV19WS BAV20WS BAV21WS	I _R			0.1	μA	V _R =100V
				0.1		V _R =150V
				0.1		V _R =200V
Capacitance between terminals	C _T			5	pF	V _R =0V, f=1MHz
Reverse Recovery Time	t _{rr}			50	ns	I _F =I _R =30mA I _{rr} =0.1X I _R , R _L =100Ω

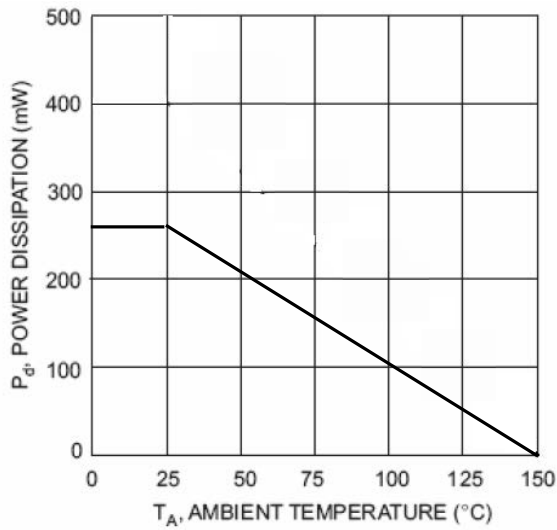


Fig. 1 Power Derating Curve

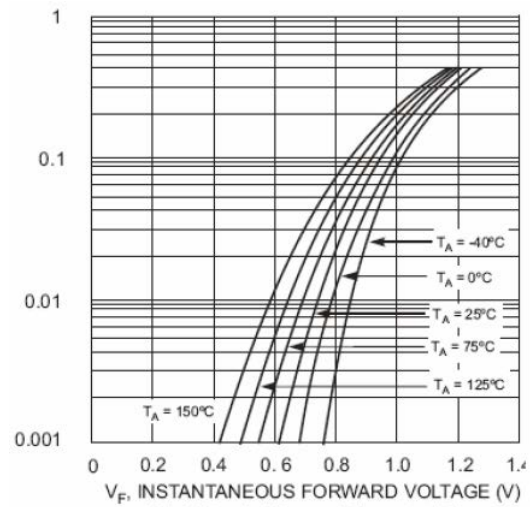


Fig. 2 Typical Forward Characteristics

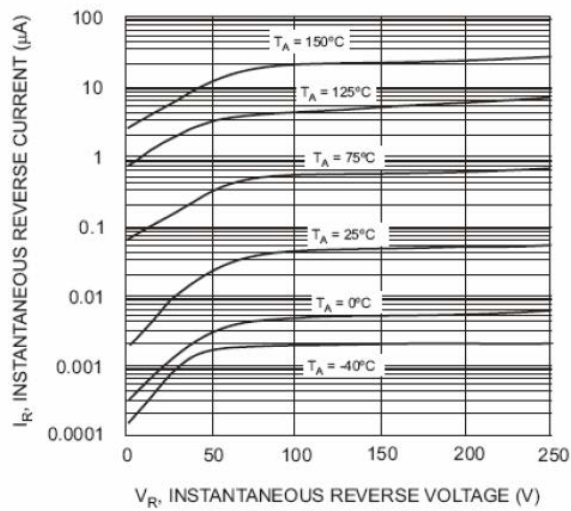


Fig. 3 Typical Reverse Characteristics

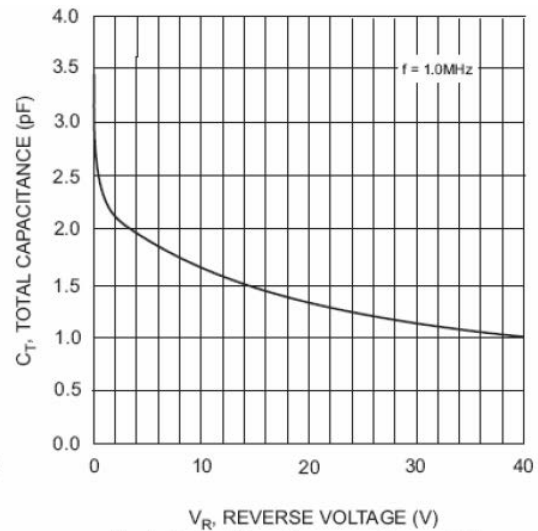
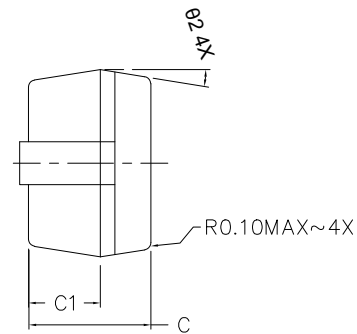
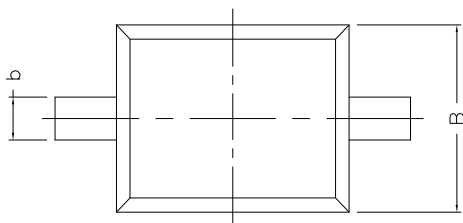
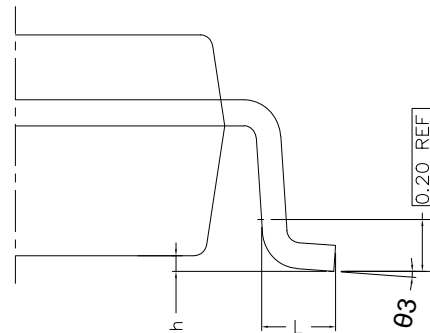
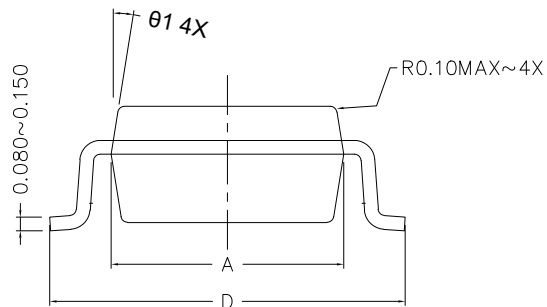


Fig. 4 Typical Capacitance vs. Reverse Voltage



SOD-323 Package Outline Dimensions (Units: mm)



COMMON DIMENSIONS (UNITS OF MEASURE IS mm)			
	MIN	NORMAL	MAX
A	1.600	1.700	1.800
B	1.200	1.300	1.400
C	0.750	0.850	0.950
C1	0.450	0.500	0.550
D	2.450	2.600	2.750
L	0.200	0.300	0.400
b	0.200	0.300	0.400
h	0.010	0.050	0.100
$\theta1$	9° TYPE		
$\theta2$	9° TYPE		
$\theta3$	0° ~ 8°		