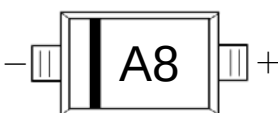
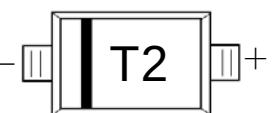


Features

- Low Reverse Current
- Surface Mount Package Ideally Suited for Automatic Insertion
- Fast Switching Speed
- For General Purpose Switching Applications



SOD-123 top view

BAV19W	BAV20W	BAV21W
		
Marking:A8	Marking:T2	Marking:T3
		



Halogen-Free

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

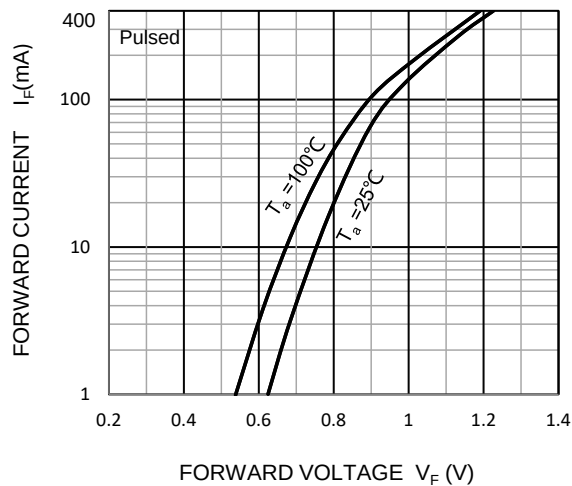
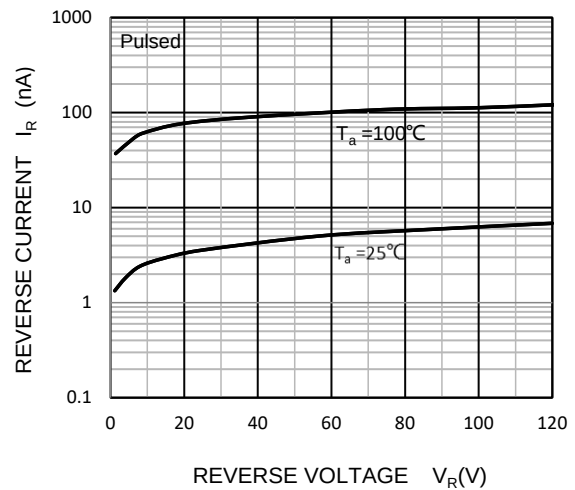
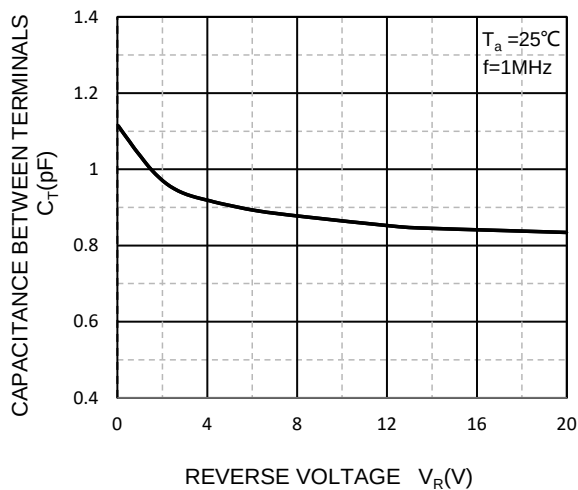
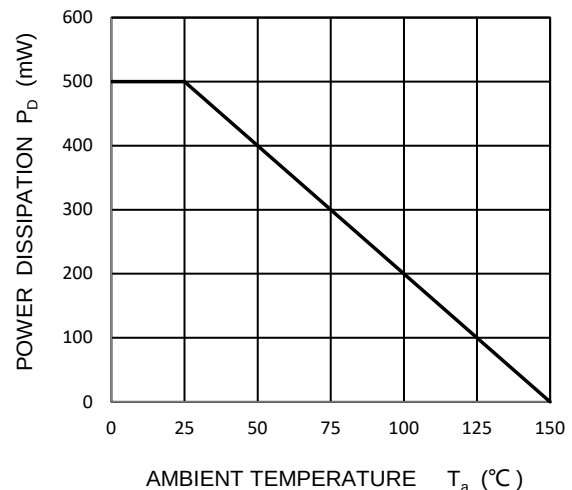
Symbol	Parameter	Value			Unit
		BAV19W	BAV20W	BAV21W	
V_{RM}	Non-Repetitive Peak Reverse Voltage	120	200	250	V
V_{RRM}	Peak Repetitive Reverse Voltage	100	150	200	V
V_{RWM}	Working Peak Reverse Voltage				
$V_{R(RMS)}$	RMS Reverse Voltage	71	106	141	V
I_O	Average Rectified Output Current	200			mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2.0			A
P_D	Power Dissipation	500			mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	250			°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150			°C

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

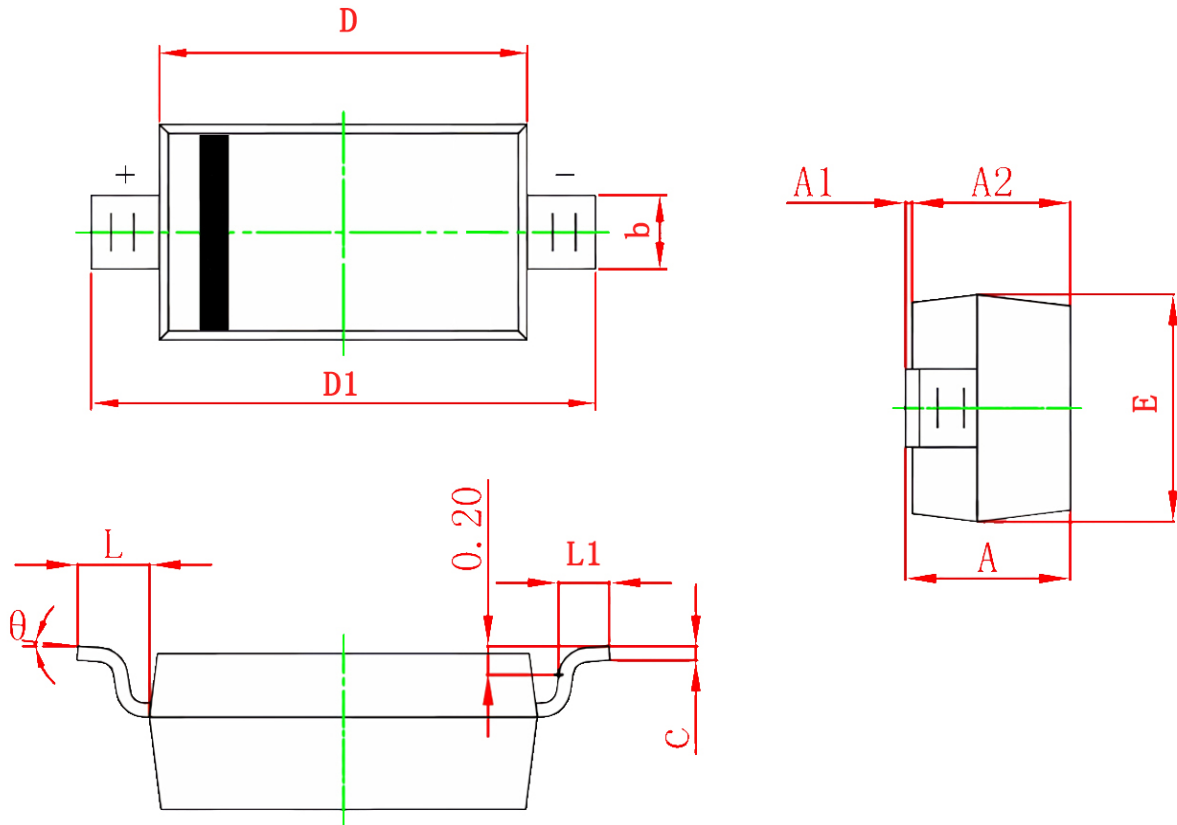
Symbol	Parameter	Condition	Min	Typ	Max	Unit
I_R	Reverse current	$V_R=100V$	--	--	0.1	μA
		BAV19W $V_R=150V$	--	--	0.1	
		BAV20W $V_R=200V$	--	--	0.1	
		BAV21W	--	--	0.1	
V_F	Forward voltage	$I_F=100mA$	--	--	1.00	V
		$I_F=200mA$	--	--	1.25	V
C_{tot}	Capacitance Between Terminals	$V_R=0V, f=1MHz$	--	--	5	pF
t_{rr}	Reverse recovery time	$I_F=I_R=30mA, I_{rr}=0.1*I_R, R_L=100\Omega$	--	--	50	ns

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAV19W	SOD-123	A8	3,000	45,000	180,000	7"reel
BAV20W	SOD-123	T2	3,000	45,000	180,000	7"reel
BAV21W	SOD-123	T3	3,000	45,000	180,000	7"reel

Typical Characteristics
Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve


SOD-123 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	2.600	2.800	0.102	0.110
D1	3.550	3.850	0.140	0.152
E	1.500	1.700	0.059	0.067
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°