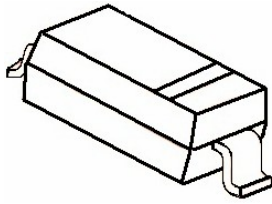


SOD-123


MARKING: BAV19W: A8
 BAV20W: T2
 BAV21W: T3

Features

- Fast Switching Device (TRR <50nS)
- Power Dissipation of 250mW
- High Stability and High Reliability
- Low reverse leakage

Mechanical Data

- SOD-123 Small Outline Plastic Package
- Color band denotes cathode end
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

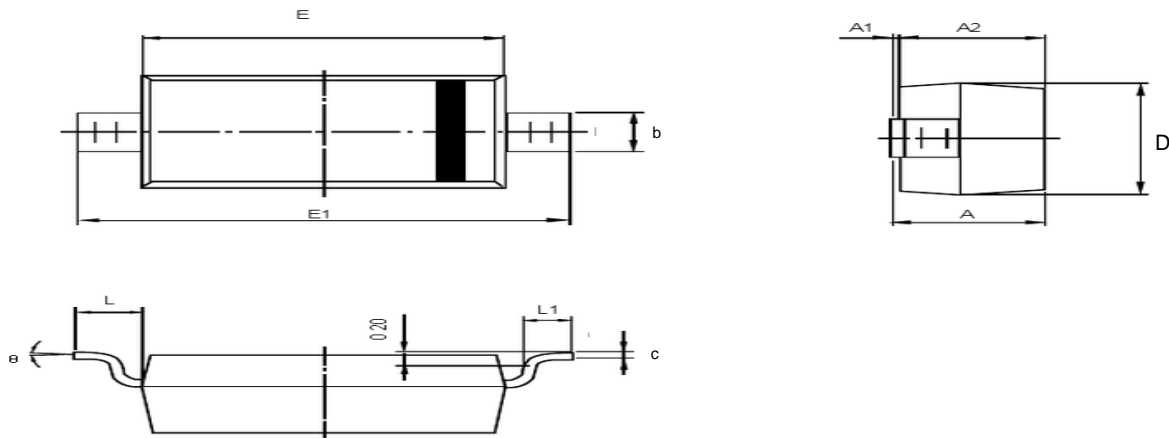
Parameters	Symbol	Value			Unit
		BAV19W	BAV20W	BAV21W	
Reverse Voltage	VR	120	200	250	V
Peak Reverse Voltage	VRM	100	150	250	V
Power Dissipation	Pd	500			mW
Operating junction temperature	Tj	150			°C
Storage temperature range	Ts	-65+150			°C
Working Inverse Voltage	WIV	75			V
Average Rectified Current	IO	200			mA
Non-repetitive Peak Forward Current	IFM	400			mA
Peak Forward Surge Current @tp=1ms; TA=25°C	IFSM	2.5			A

Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
VRB	Reverse Voltage	IB=100uA BAV19W BAV20W BAV21W	120 200 250	---	V
IR	Reverse Leakage Current	VR=100V BAV19W VR=150V BAV20W VR=200V BAV21W	---	0.1	uA
VF	Forward Voltage	IF=100mA	---	1.00	V
		IF=200mA	---	1.25	
TRR	Reverse Recovery Time	IF= 30mA, IR=30mA RL=100Ω IRR=3mA	---	50	nS
C	Capacitance	VR=0V, f=1MHZ	---	5	pF


SOD-123 PACKAGE OUTLINE


Symbol	Dimensions In Millimeters		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	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500REF		0.020REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°