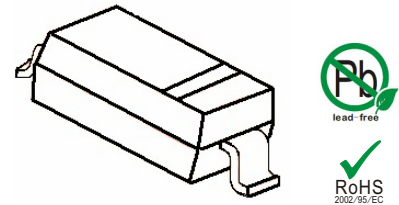


Features

- Fast Switching Device (TRR <50nS)
- Power Dissipation of 500mW
- High Stability and High Reliability
- Low reverse leakage



SOD-123

Mechanical Data

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

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

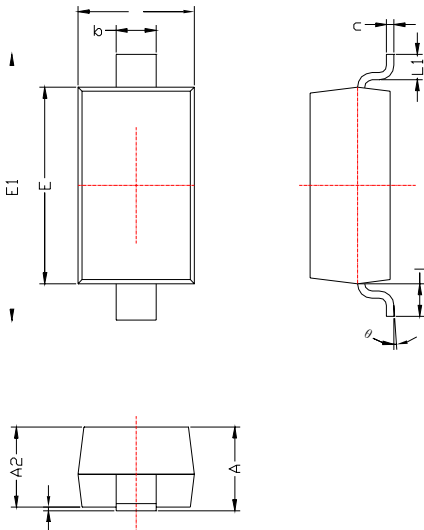
Parameters	Symbol	BAV19W	BAV20W	BAV21W	Unit
Reverse Voltage	VR	120	200	250	V
Peak Reverse Voltage	VRM	100	150	250	V
Power Dissipation	Pd		500		mW
Operating junction temperature	Tj	150			°C
Storage temperature range	Ts	-65-+150			°C
Average Rectified Current	IO	200			mA
Non-repetitive Peak Forward Current	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

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

SOD-123 Package Outline



SYMBOL	DIMENSION	
	MIN	MAX
A	0.950	1.350
A1	0.000	0.100
A2	1.050	1.150
b	0.500	0.700
C	0.080	0.200
D	1.400	1.800
E	2.500	2.800
E1	3.600	3.900
L	0.05REF	
L1	0.250	0.450
θ	0°	8°

Package Information

Qty: 3,000/Tape and reel