

BAV21WT
150mW SOD-523 Fast Switching Diode
SOD-523

MARKING: T3

Features

- Fast Switching Device (TRR <50nS)
- Power Dissipation of 150mW
- High Stability and High Reliability
- Low reverse leakage

Mechanical Data

- SOD-523 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	VR	250	V
Peak Reverse Voltage	VRM	250	V
Power Dissipation	Pd	150	mW
Operating junction temperature	Tj	150	°C
Storage temperature range	Ts	-65-+150	°C
Thermal Resistance Junction to Ambient Air	R _{θJA}	833	°C/W
Average Rectified Current	IO	200	mA
Non-repetitive Peak Forward Current	IFM	400	mA
Peak Forward Surge Current @tp=1ms; TA=25°C	IFSM	1.7	A

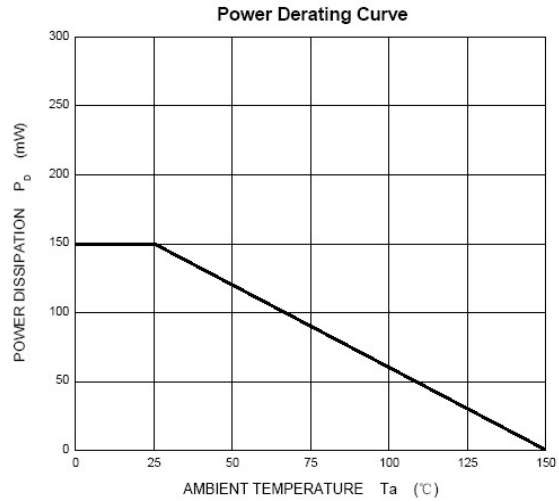
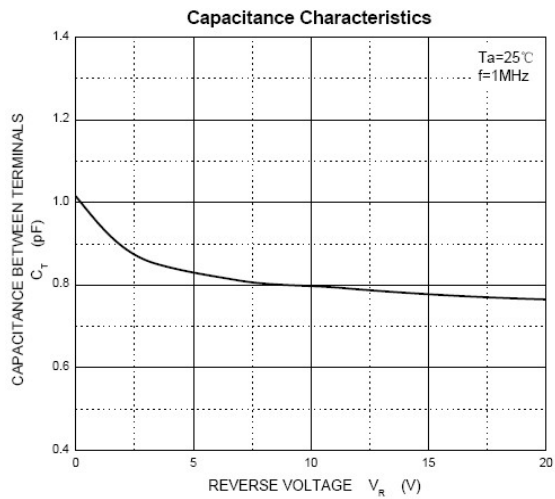
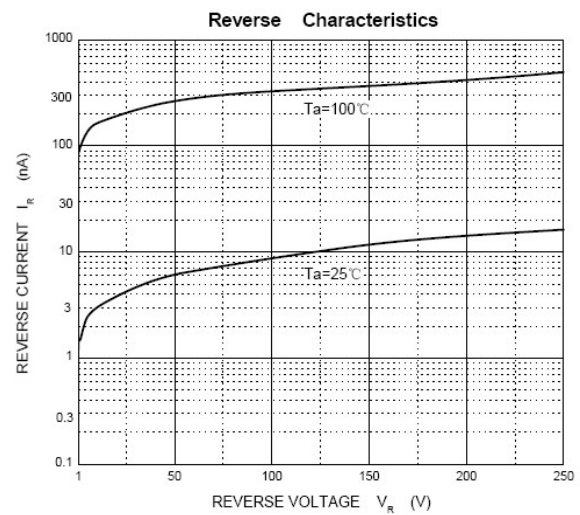
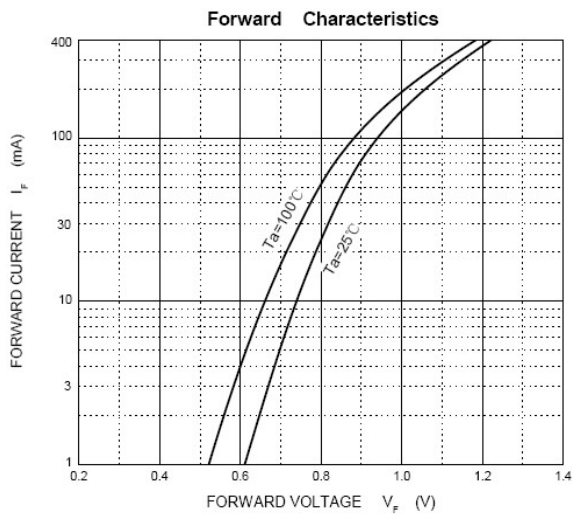
Valid provided that electrodes are kept at ambient temperature.

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

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

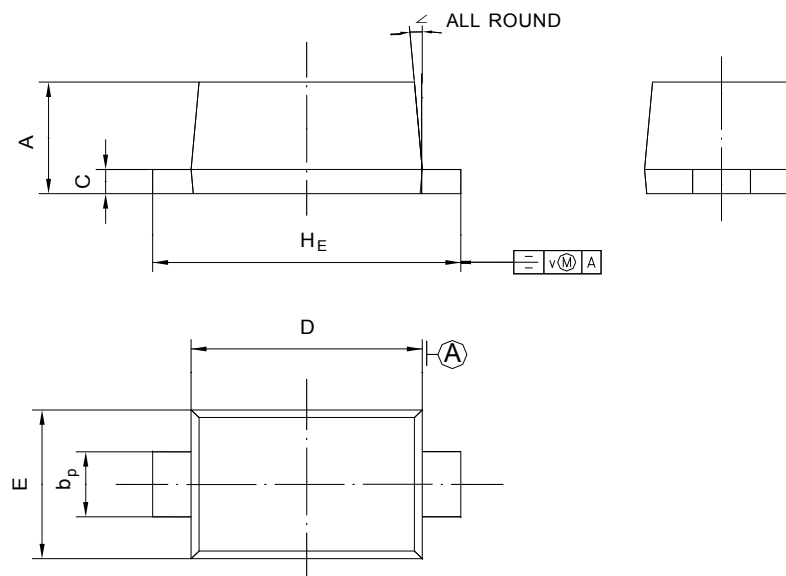
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Typical Characteristics



SOD-523 PACKAGE OUTLINE

Plastic surface mounted package



UNIT	A	b_p	C	D	E	H_E	V	$\angle$
mm	0.77 0.51	0.40 0.25	0.15 0.08	1.30 1.10	0.85 0.75	1.7 1.5	0.1	5°