

BAV74

SWITCHING DIODE

VOLTAGE 50 Volt **POWER** 225 mWatt

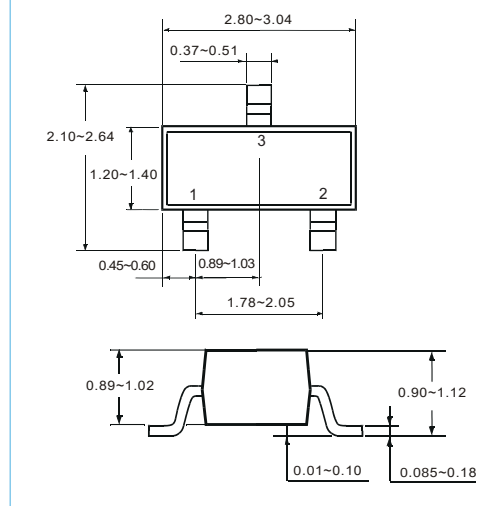
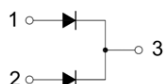
SOT-23 Unit:mm

FEATURES

- Fast Switching Speed
- EFor General Purpose Switching Applications
- High Conductance
- Lead free in compliance with EU RoHS
- Marking code: JA

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

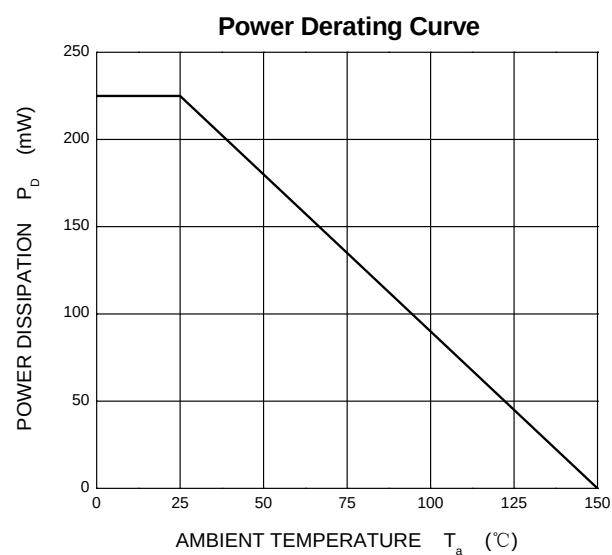
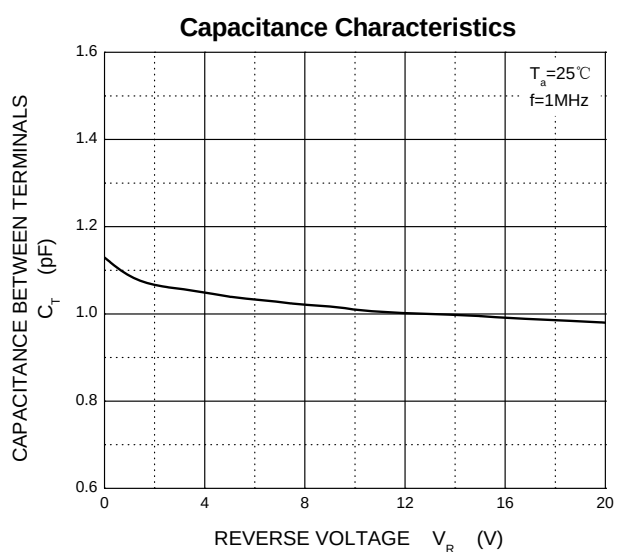
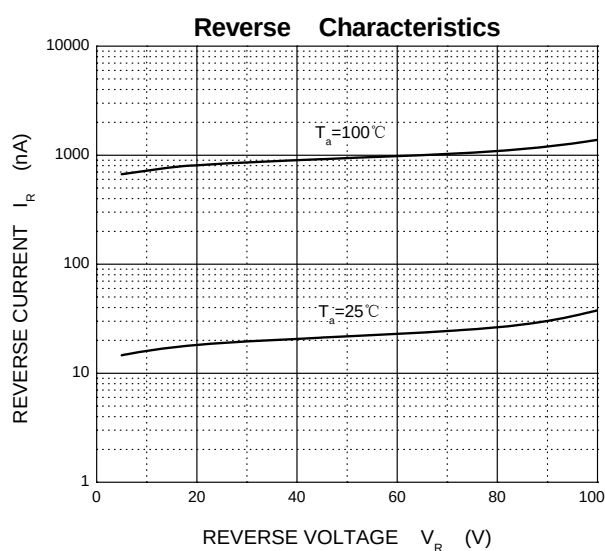
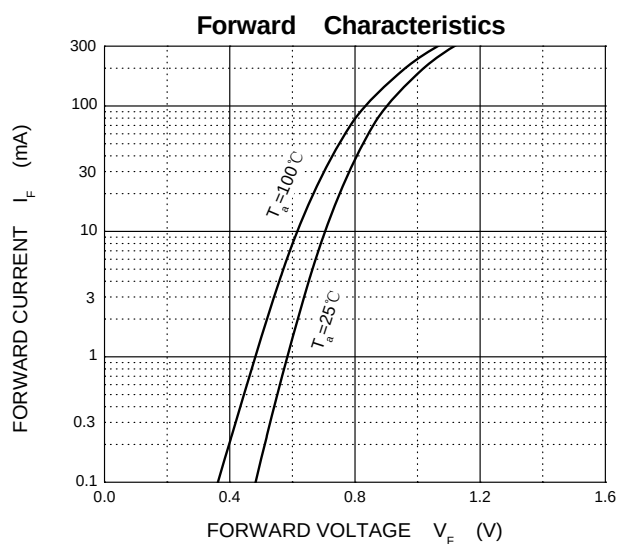
Parameter	Symbol	Limit	Unit
Reverse Voltage	V_R	50	V
Average Rectified Output Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2.0	A
Power Dissipation	P_D	225	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	556	$^{\circ}\text{C}/\text{W}$
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature range	T_{STG}	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V_R	50			V	$I_R=5\mu\text{A}$
Forward voltage	V_F			1	V	$I_F=100\text{mA}$
Reverse current	I_R			0.1	μA	$V_R=50\text{V}$
Capacitance between terminals	C_T			2.0	pF	$V_R=0, f=1\text{MHz}$
Reverse recovery time	t_{rr}			4	ns	$I_F = I_R = 10\text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100\Omega$

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Typical Characteristics

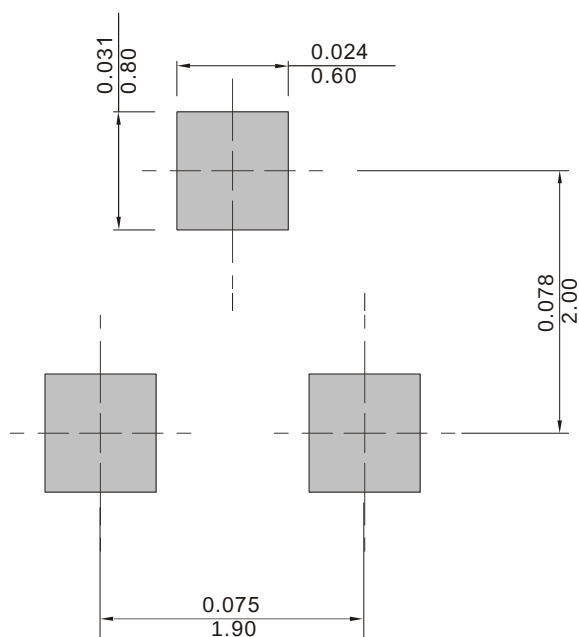


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MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAV74	SOT-23	7 Inch	3000