

BAV99W

SWITCHING DIODE

VOLTAGE 75 Volt **POWER** 200 mWatt

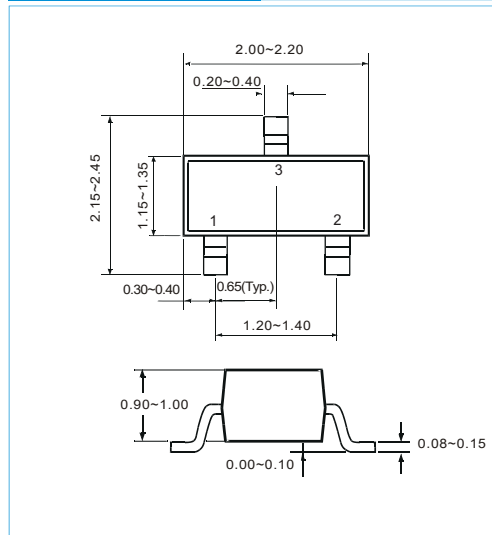
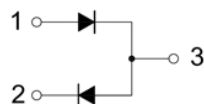
SOT-323 Unit:mm

FEATURES

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

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	75	V
Forward Current	I_F	150	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2.0	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	$^{\circ}\text{C}/\text{W}$
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature range	T_{STG}	-55~+150	$^{\circ}\text{C}$

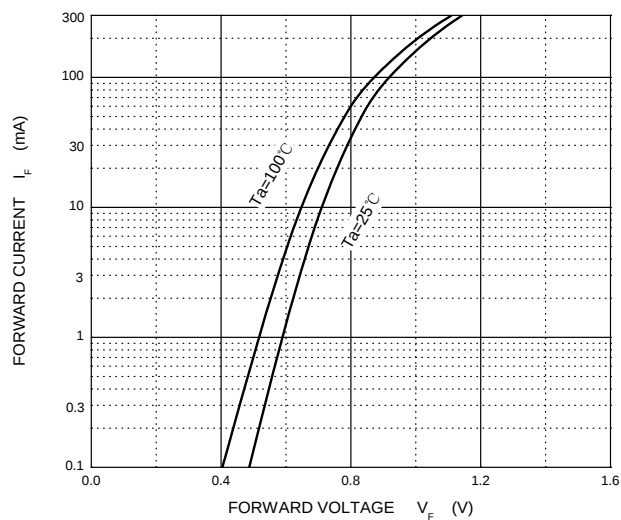
ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	($I_R = 100\mu\text{A}$)	75			V
Reverse Leakage	I_R	($V_R = 75\text{ V}$) ($V_R = 25\text{ V}$)			2.5 25	μA nA
Forward Voltage	V_F	($I_F = 1.0\text{ mA}$) ($I_F = 10\text{ mA}$) ($I_F = 50\text{ mA}$) ($I_F = 150\text{ mA}$)			0.715 0.855 1.00 1.25	V
Total Capacitance	C_T	($V_R = 0\text{ V}$, $f = 1.0\text{ MHz}$)			2.0	pF
Reverse Recovery Time	t_{rr}	$I_F=10\text{mA}$, $I_R=10\text{mA}$, $I_{rr}=0.1I_R$, $R_L=100\Omega$			4.0	ns

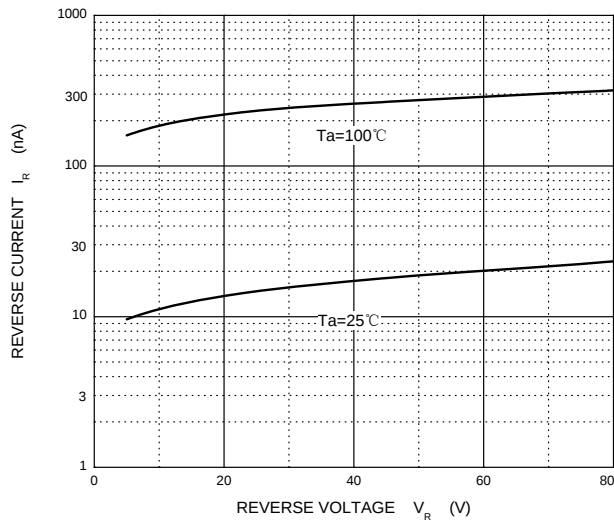
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Typical Characteristics

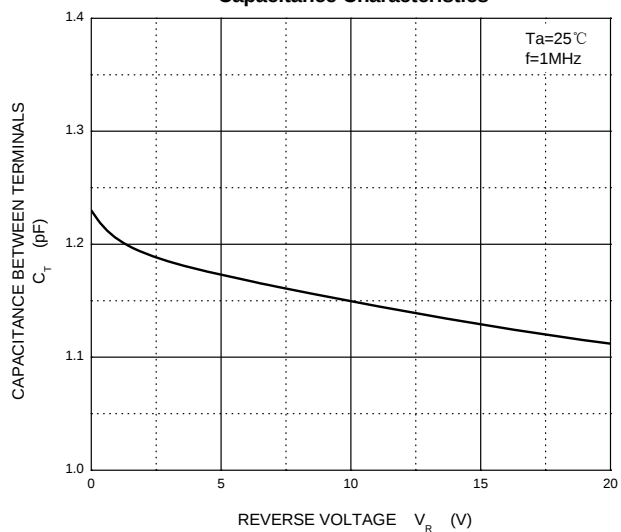
Forward Characteristics



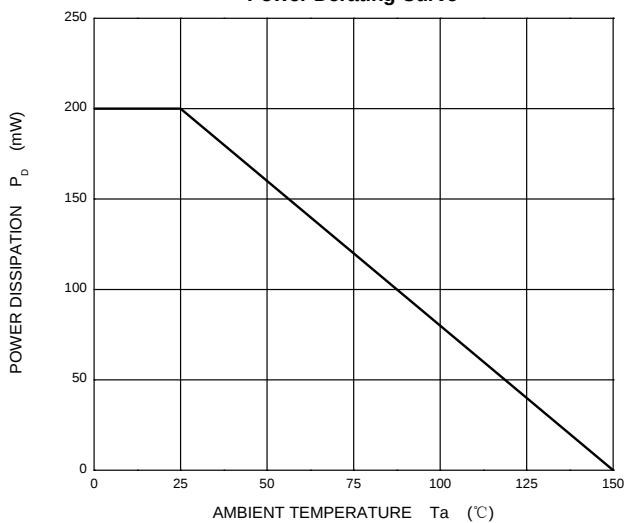
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

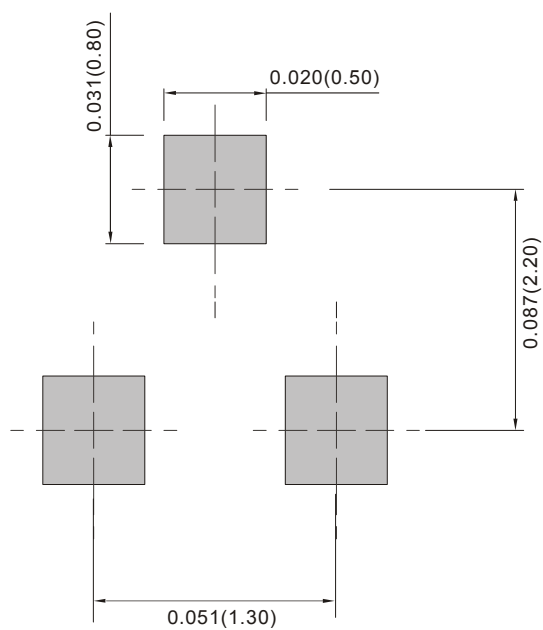


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MOUNTING PAD LAYOUT

SOT-323

Unit:Inch(mm)



Ordering Information

• Packing information

BAV99W	Packing Quantity
Tape&Reel	7 Inch; 3kpcs/Reel
Bulk(Tube/Box)	N/A