

1. Features

- Fast Switching Speed
- High Conductance
- For General Purpose Switching Applications
- BAW56/BAV70/BAV99, SWITCHING DIODE

2. Pinning Information

BAW56	BAV70	BAV99
MARKING:A1	MARKING:A4	MARKING:A7

Solid dot = Green molding compound device, if none, the normal device

3. Limiting Service Range

Parameter	Symbol	Value	Units
Reverse Voltage	V_R	70	V
Forward Current	I_F	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2	A
Power Dissipation	P_D	225	mW
Thermal Resistance Junction to Ambient	R_{0JA}	556	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature range	T_{STG}	-55 to 150	°C

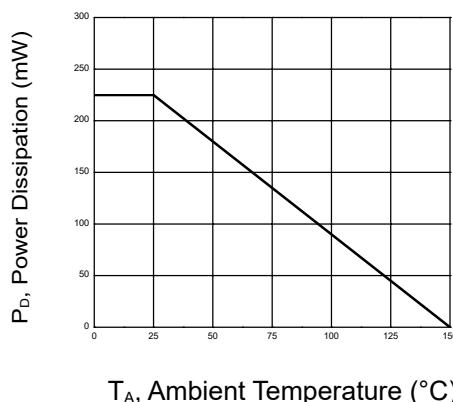
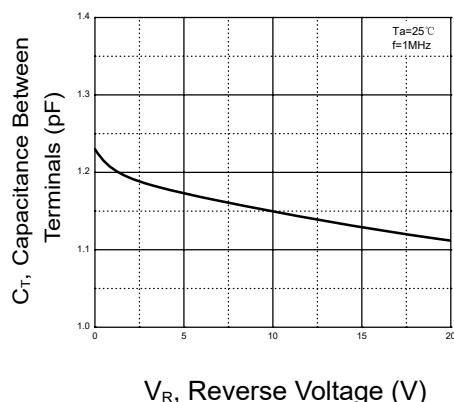
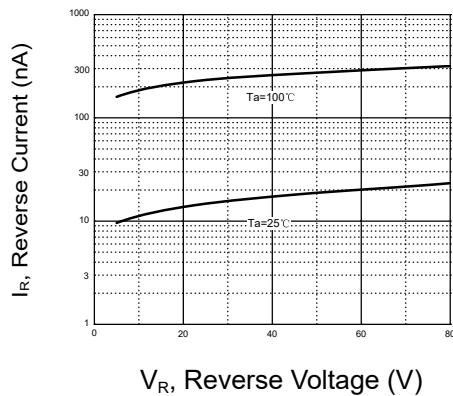
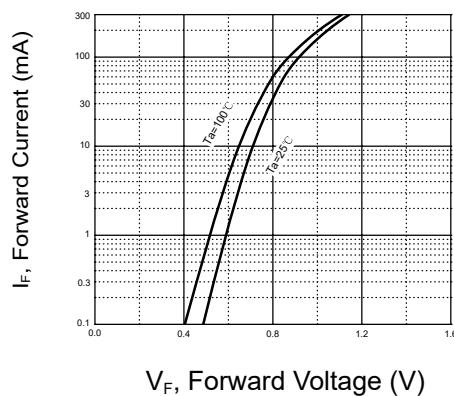


4. Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	Min	Max	Units
Reverse breakdown voltage	V_R	$I_R=100\mu\text{A}$	70		V
Forward voltage	V_{F1}	$I_F=1\text{mA}$		0.715	V
	V_{F2}	$I_F=10\text{mA}$		0.855	V
	V_{F3}	$I_F=50\text{mA}$		1	V
	V_{F4}	$I_F=150\text{mA}$		1.25	V
Reverse current	I_R	$V_R=70\text{V}$		2.5	μA
Capacitance between terminals	C_T	$V_R=0\text{V}, f=1\text{MHz}$		1.5	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10\text{mA}, I_{rr}=0.1 \times I_R, R_L=100\Omega$		6	ns

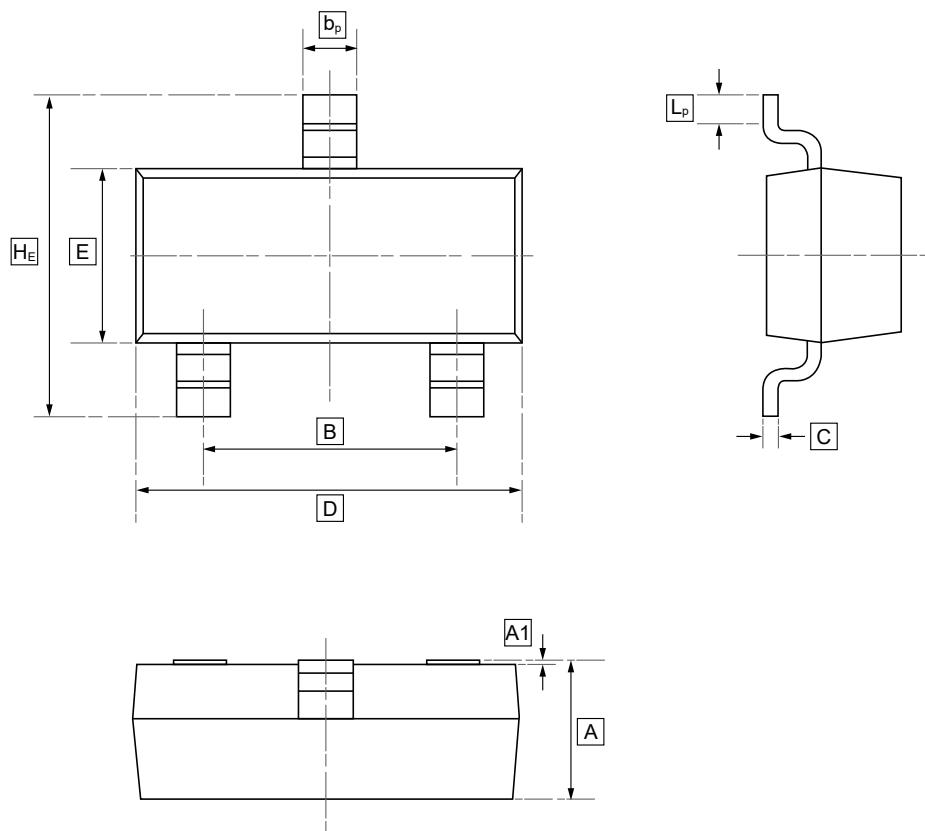


5. Typical Characteristic





6.SOT-23 Package Outline Dimensions

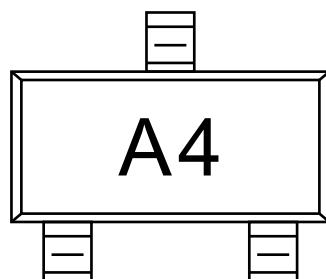


DIMENSIONS (mm are the original dimensions)

Symbol	A	B	b _p	C	D	E	H _E	A1	L _p
Min	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20
Max	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50



7.Ordering Information



Order Code	Marking	Package	Base QTY	Delivery Mode
UMW BAW56	A1	SOT-23	3000	Tape and reel
UMW BAV70	A4	SOT-23	3000	Tape and reel
UMW BAV99	A7	SOT-23	3000	Tape and reel



8.Disclaimer

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