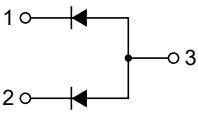
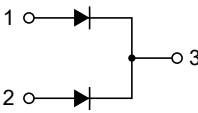
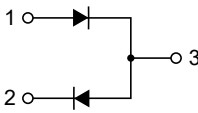
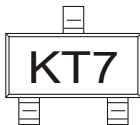
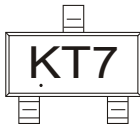
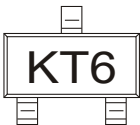





## 1.Features

- Fast Switching Speed
- High Conductance
- For General Purpose Switching Applications
- BAV23A/C/S, SWITCHING DIODE

## 2.Pinning Information

BAV23A	BAV23C	BAV23S
		
MARKING: KT7	MARKING: KT6	MARKING:KL31
 	 	 

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



### 3. Limiting Service Range

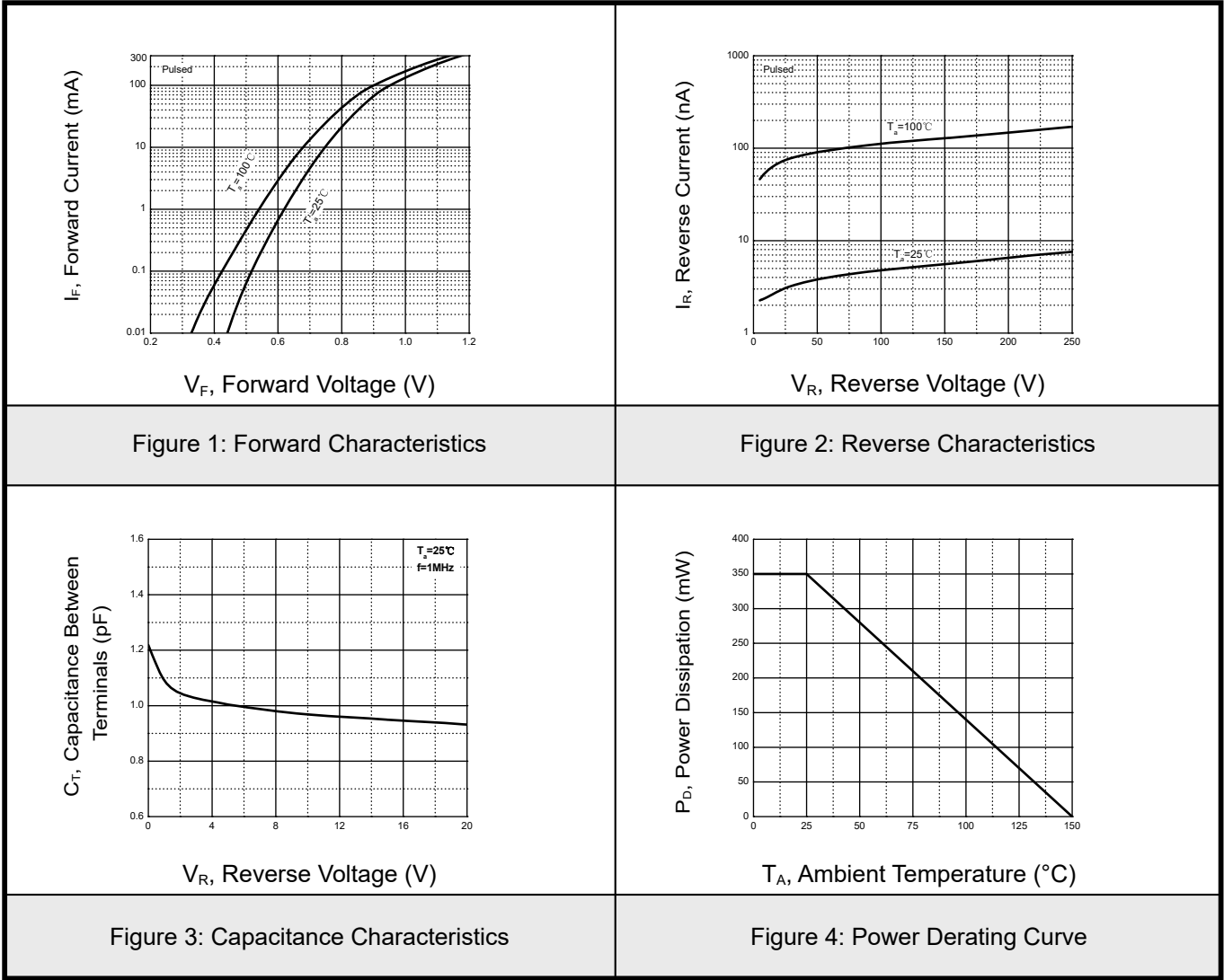
Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	$V_{RRM}$	250	V
Working peak reverse voltage	$V_{RWM}$		
RMS Reverse Voltage	$V_{R(RMS)}$	175	V
Average rectified output current	$I_O$	225	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	1.7	A
Power dissipation	$P_D$	350	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	357	°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 voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	250		V
Reverse current	$I_R$	$V_R=250\text{V}$		0.1	$\mu\text{A}$
Forward voltage	$V_F$	$I_F=100\text{mA}$		1	V
		$I_F=200\text{mA}$		1.25	V
Diode capacitance	$C_{tot}$	$V_R=0\text{V}$ , $f=1\text{MHz}$		5	pF
Reveres recovery time	$t_{rr}$	$I_F=I_R=30\text{mA}$ , $I_{rr}=0.1\times I_R$ , $R_L=100\Omega$		50	ns

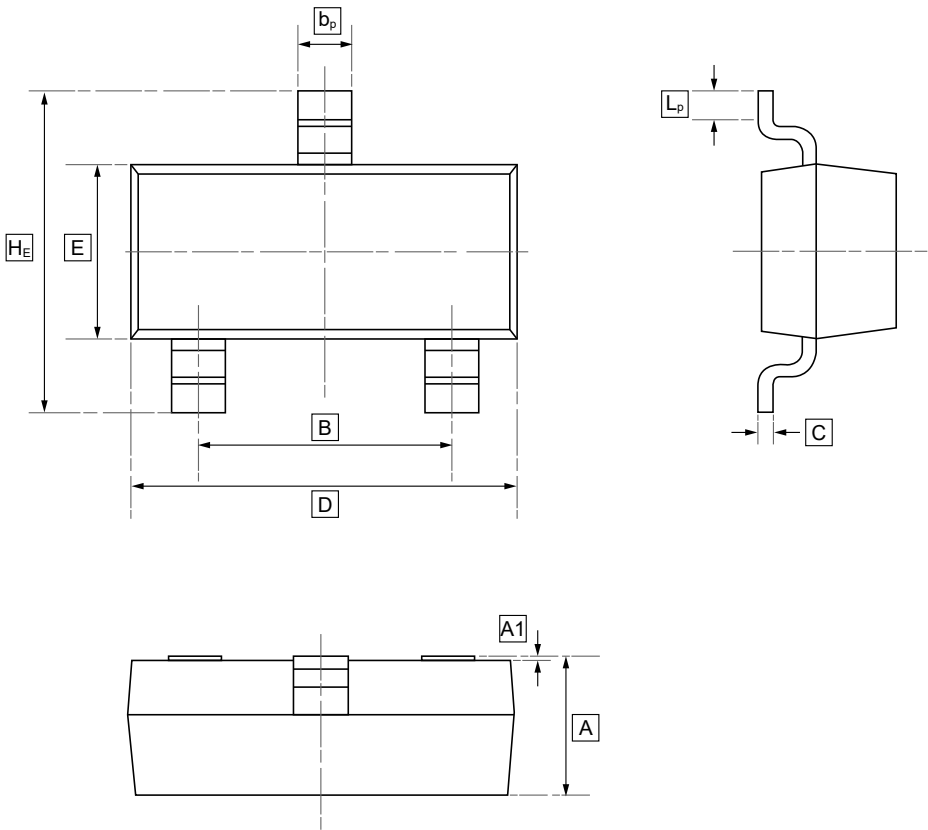


5. Typical Characteristic





6.SOT-23 Package Outline Dimensions

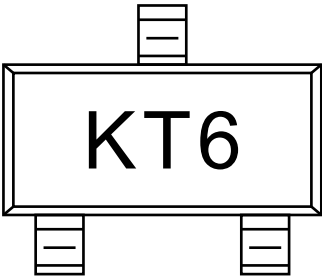


DIMENSIONS (mm are the original dimensions)

Symbol	A	B	b <sub>p</sub>	C	D	E	H <sub>E</sub>	A1	L <sub>p</sub>
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	Package	Base QTY	Delivery Mode
UMW BAV23C	SOT-23	2500	Tape and reel



## 8.Disclaimer

UMW reserves the right to make changes to all products, specifications. Customers should obtain the latest version of product documentation and verify the completeness and currency of the information before placing an order.

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