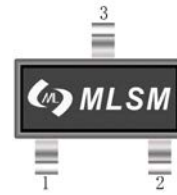
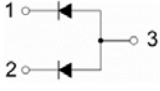
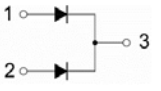
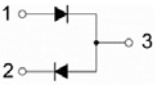


Features

- Fast Switching Speed
- High Conductance
- For General Purpose Switching Applications



SOT-23 top view

BAV23A	BAV23C	BAV23S
		
Marking:KT7	Marking:KT6	Marking:KL31
		



Halogen-Free

Maximum Ratings @Ta=25°C unless otherwise noted

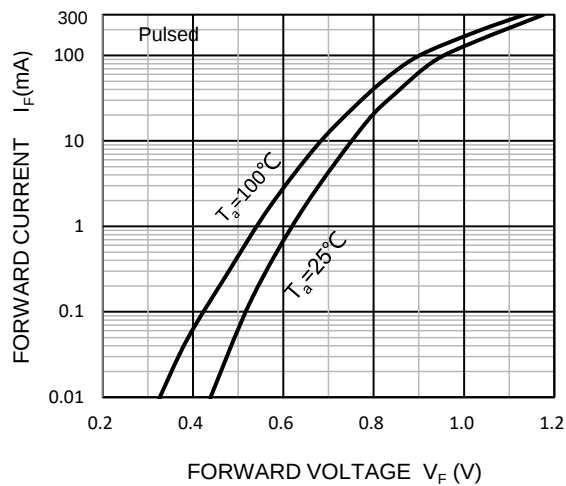
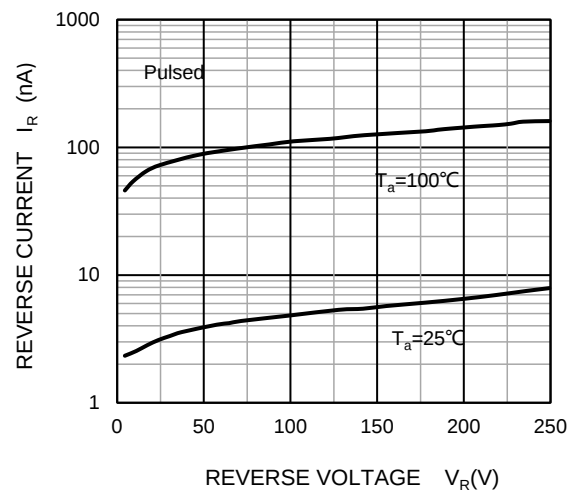
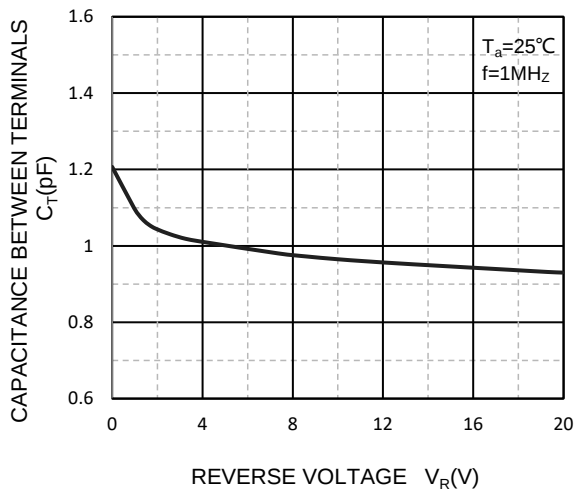
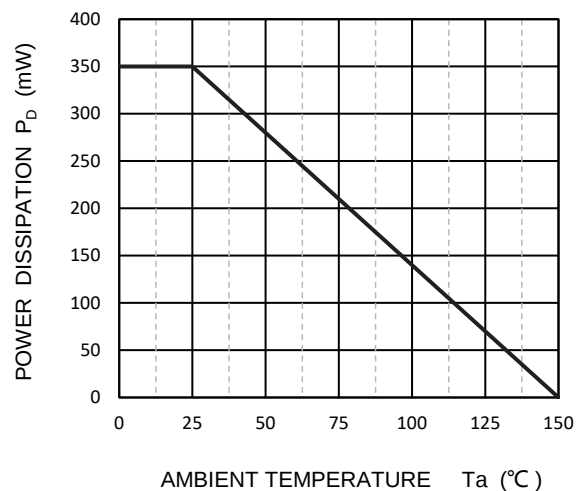
Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	250	V
V_{RWM}	Working Peak Reverse Voltage		
$V_R (RMS)$	RMS Reverse Voltage	175	V
I_O	Average Rectified Output Current	225	mA
I_{FRM}	Repetitive Peak Forward Surge Current	625	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	1.7	A
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	357	°C/W
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

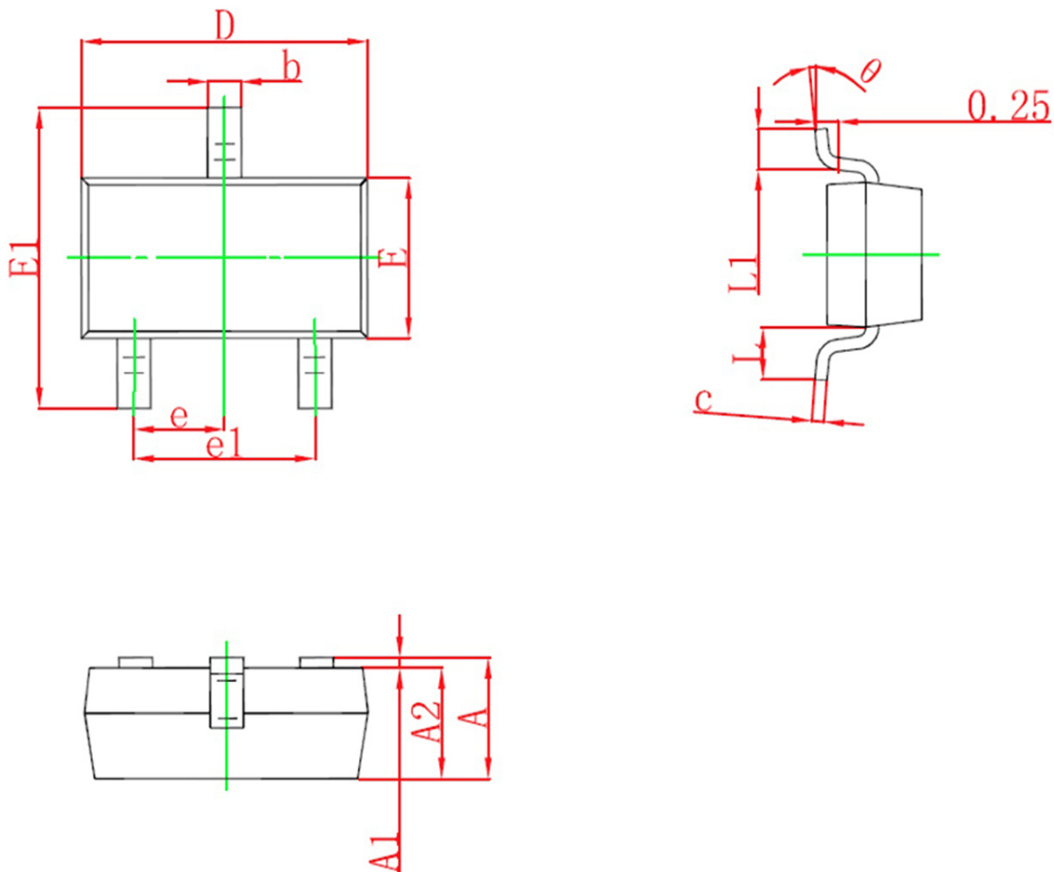
Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R = 100\mu A$	250	--	--	V
I_R	Reverse current	$V_R = 250V$	--	--	0.1	μA
V_F	Forward voltage	$I_F = 100mA$	--	--	1.00	V
		$I_F = 200mA$	--	--	1.25	
C_{tot}	Total capacitance	$V_R = 0V, f = 1MHz$	--	--	5	pF
t_{rr}	Reverse recovery time	$I_F = I_R = 30mA, I_{rr} = 0.1I_R, R_L = 100\Omega$	--	--	50	ns

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAV23A	SOT-23	KT7	3,000	45,000	180,000	7"reel
BAV23C	SOT-23	KT6	3,000	45,000	180,000	7"reel
BAV23S	SOT-23	KL31	3,000	45,000	180,000	7"reel

Typical Operating Characteristics
Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve


SOT-23 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E1	2.250	2.550	0.088	0.100
E	1.200	1.400	0.047	0.055
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°