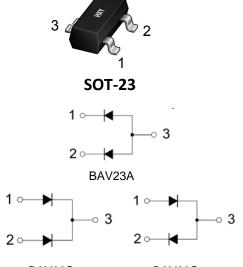


Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAV23A	SOT-23	KT7	3000
BAV23C	SOT-23	KT6	3000
BAV23S	SOT-23	KL31	3000



BAV23S

BAV23S

Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	250	V
V _{RWM}	Working Peak Reverse Voltage	200	
V _{R(RMS)}	RMS Reverse Voltage	175	V
lo	Average Rectified Output Current	225	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	1.7	A
PD	Power Dissipation	350	mW
R _{OJA}	Thermal Resistance from Junction to Ambient	357	°C/W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	ĉ

Electrcal Charcteristics (Ta=25 unless otherwise specified)

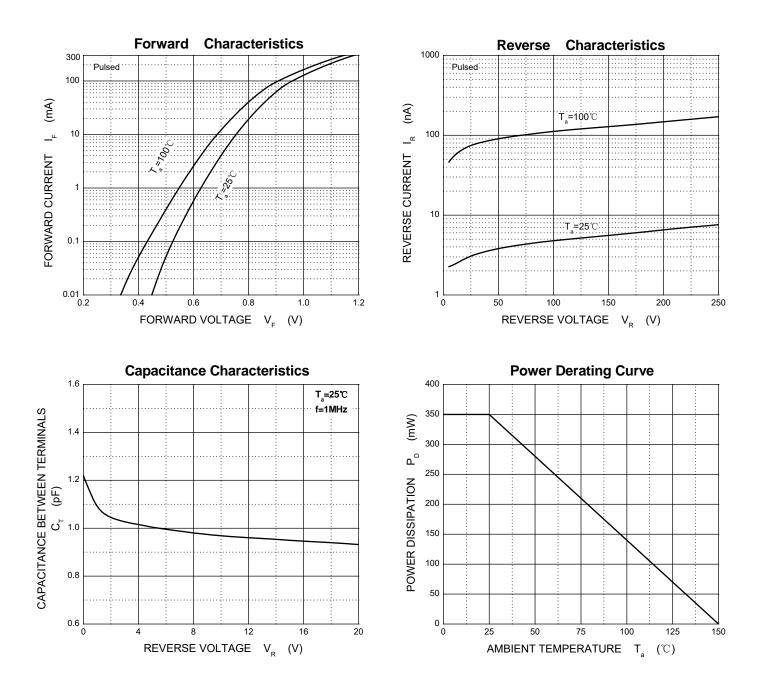
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	V _(BR)	Ι _R =100μΑ	250			V
Reverse current	I _R	V _R =250V			0.1	μA
Forward voltage	V _F	I _F =100mA	1		V	
		I _F =200mA			1.25	V
Total capacitance	C _{tot}	V _R =0V,f=1MHz			5	pF
Reverse recovery time	t _{rr}	I _F = I _R =30mA, I _{rr} =0.1×I _R , R _L =100Ω			50	ns

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

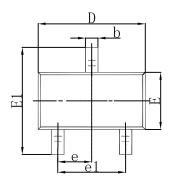


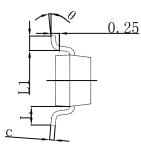
Typical Characteristics

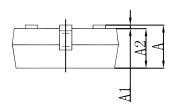




SOT-23 Package Outline Dimensions

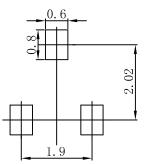






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
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°	

SOT-23 Suggested Pad Layout



Note: 1.Controlling dimension: in millimeters.

2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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