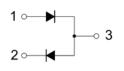


Features

- Forward Current:I_F=200 mA
- Power Dissipation of 225mw



SOT-23



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAV99	SOT-23	A7	3000

Maximum Ratings(Ta=25 unless otherwise noted)

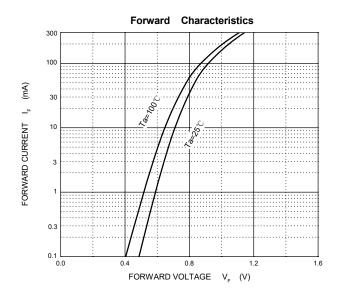
Parameter Parameter	Symbol	Limit	Unit
Reverse Voltage	V _R	70	V
Forward Current	I _F	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	Α
Power Dissipation	P _D	225	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	556	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature range	T _{STG}	-55~+150	°C

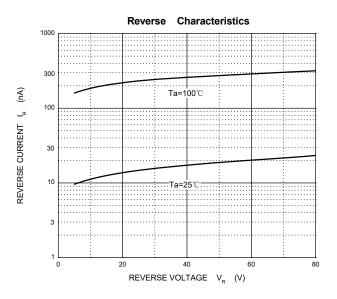
Electrical Characteristics(Ta=25 unless otherwise specified)

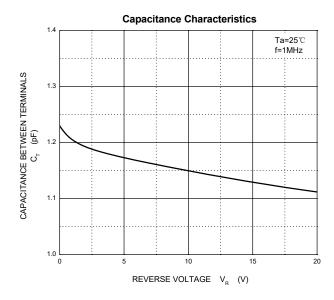
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdown voltage	V _R	70			V	I _R =100μA
	V _{F1}			0.715	V	I _F =1mA
Forward voltage	V _{F2}			0.855	V	I _F =10mA
Torward vollage	V _{F3}			1	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	I _R			2.5	μA	V _R =70V
Capacitance between terminals	C _T			1.5	pF	V _R =0,f=1MHz
Devene we cover time	4			6	20	$I_F = I_R = 10 \text{mA},$
Reverse recovery time	t _{rr}			0	ns	Irr= $0.1 \times I_R$, $R_L = 100\Omega$

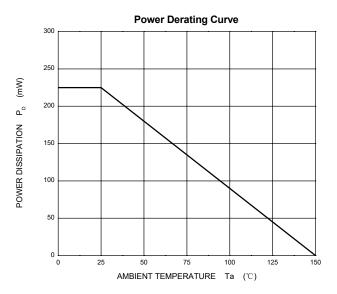


Typical Characteristics

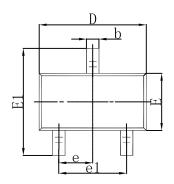


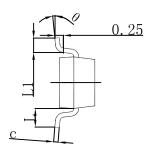


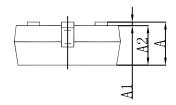




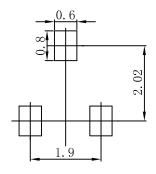
SOT-23 Package Outline Dimensions







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	
E	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°	



- 1.Controlling dimension:in millimeters.2.General tolerance:± 0.05mm.3.The pad layout is for reference purposes only.



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