

Features

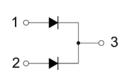
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



SOT-23

Package Marking and Ordering Information

		<u> </u>	
Product ID	Pack	Marking	Qty(PCS)
BAV74	SOT-23	JA	3000



Maxmim Ratings (Ta=25 unless otherwise noted)

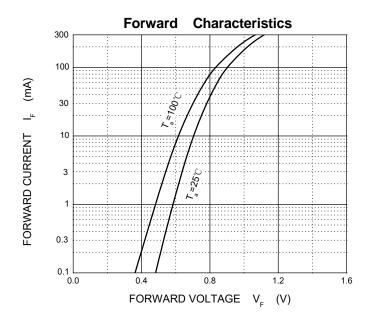
waxiiiiii Ratings (Ta-25 unless otherwise noted)					
Parameter	Symbol	Value	Unit		
Non-Repetitive Peak Reverse Voltage	V_{RM}	50	V		
DC Blocking Voltage	V_R	50			
Average Rectified Output Current	I ₀	200	mA		
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	Α		
Power Dissipation	P _D	225	mW		
Thermal Resistance From Junction to Ambient	$R_{\theta JA}$	556	°C/W		
Junction Temperature	TJ	150	$^{\circ}$		
Storage Temperature Range	T _{STG}	-55~+150	°C		

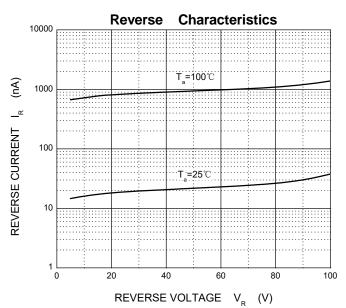
Electrical Charcteristics (Ta=25 unless otherwise specified)

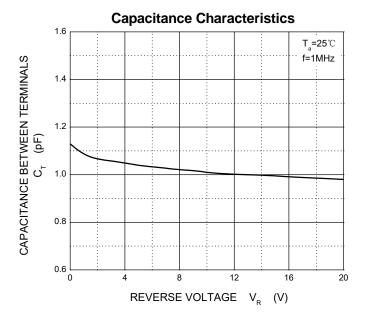
Liectical Offarcteristics (1a-25 diffess otherwise specified)					
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I _R = 5μA	50		V
Reverse voltage leakage current	I _R	V _R =50V		0.1	μΑ
Forward voltage	V _F	I _F =100mA		1	V
Diode Capacitance	C _D	V _R =0, f=1MHz		2	pF
Reveres recovery time	t _{rr}	$I_F=I_R=10\text{mA}, R_L=100\Omega,$ $I_{rr}=0.1\times I_R$		4	ns

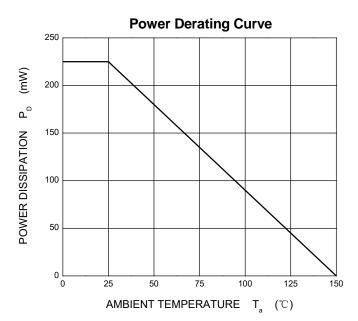


Typical Characteristics

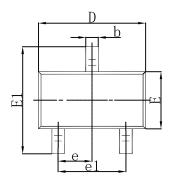


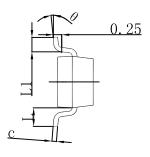


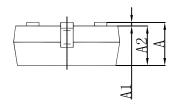




SOT-23 Package Outline Dimensions

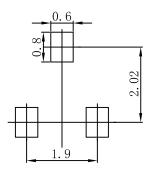






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950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

SOT-23 Suggested Pad Layout



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



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