

Features

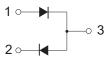
- Average Rectified Output Current:I_O=215 mA
- Power Dissipation of 200mw



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAV199	SOT-23	JY	3000





Maxmim Ratings (Ta=25°C unless otherwise noted)

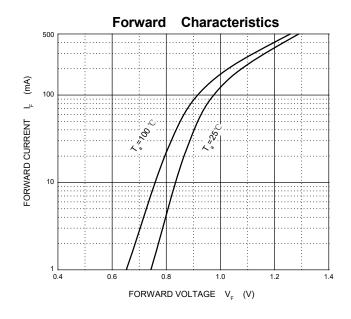
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	70	V
DC Blocking Voltage	V _R	70	V
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	Io	215	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	IFSM	1.0	А
Power Dissipation	P _D	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{STG}	-55~+150	℃

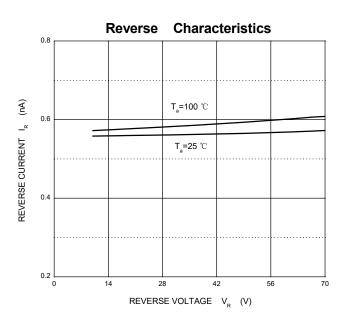
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

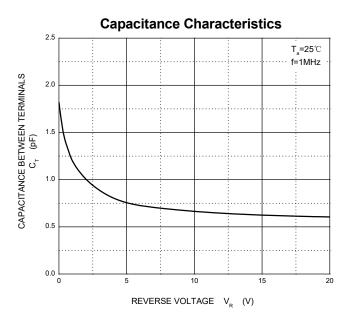
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I _R = 100µA	70		V
Reverse voltage leakage current	I _R	V _R =70V		5	nA
Forward voltage	V _F	I _F =1mA I _F =10mA		900 1000	
		I _F =50mA		1100	mV
		I _F =150mA		1250	
Diode capacitance	C_D	V _R =0, f=1MHz		2	pF
Reverse recovery time	t _{rr}	I _F = I _R =10mA		3	μs

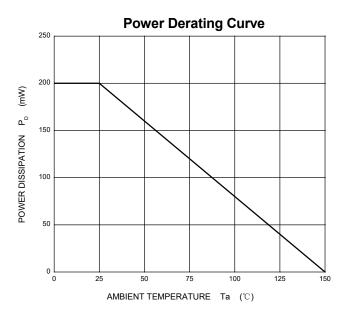


Typical Characteristics

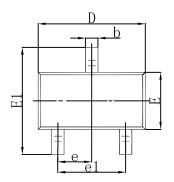


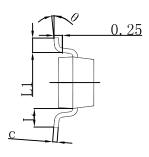


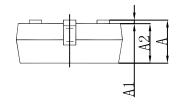




SOT-23 Package Outline Dimensions

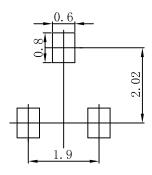






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950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



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



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