

FEATURES

Fast Switching Speed.

High Conductance.

For General Purpose Switching Applications.

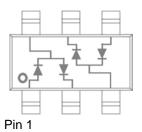
Surface Mount Package Ideally Suited for Automatic Insertion.



SOT-363

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAV99S	SOT-363	K1	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

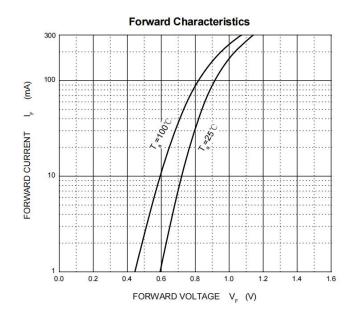
Symbol	Parameter	Value	Unit
V _R	Reverse Voltage	75	V
V_{RRM}	Reverse Voltage	85	V
I _F	Forward Current	150	mA
I _{FRM}	Repetitive Peak Forward Current	0.45	Α
I _{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.5	Α
P _d	Power Dissipation	200	mW
R _{⊝JA}	Thermal Resistance From Junction To Ambient	625	°C/W
TJ	Operation Junction Temperature Range	-40~+150	$^{\circ}$
T _{STG}	Storage Temperature Range	-55~+150	$^{\circ}$

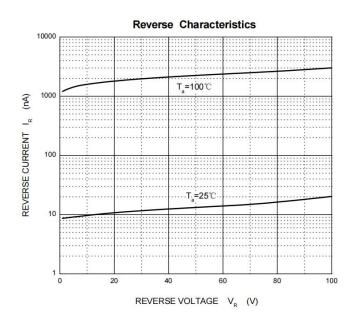
ELECTRICAL CHARACTERISTICS(Ta=25 unless otherwise noted)

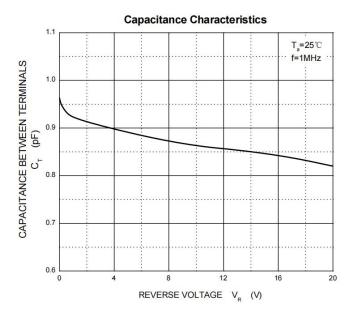
Symbol	Parameter	Test conditions	Min	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	I _R =100μA	70		V
I _R	Reverse current	V _R =75V		1	μД
VF	Forward voltage	I⊧=1mA		0.715	V
		I _F =10mA		0.855	V
		I _F =50mA		1	V
		I _F =150mA		1.25	V
Ст	Capacitance between terminals	V _R =0V, f=1MHz		1.5	pF
t _{rr}	Reverse recovery time	$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \text{X} I_R, R_L = 100 \Omega$ 6		6	nS

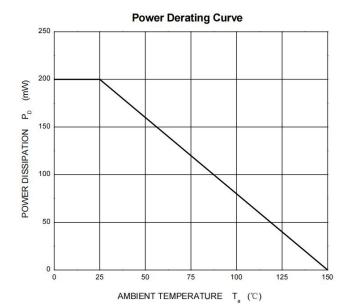


Typical Characteristics



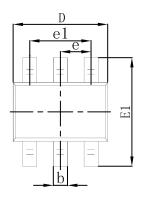


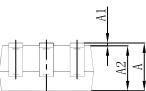


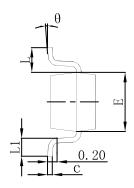




SOT-363 Package Outline Dimensions

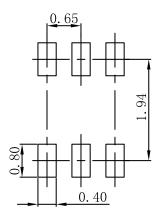






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.150	0.350	0.006	0.014	
С	0.100	0.150	0.004	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.400	0.085	0.094	
е	0.650 TYP		0.026 TYP		
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

SOT-363 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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