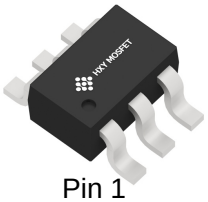
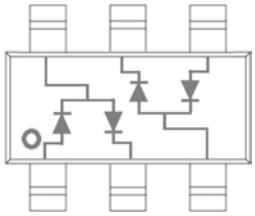
Features

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



Pin 1

SOT-363



Pin 1

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAV99S,115	SOT-363	KJG	3000

Maximum Ratings (Ta=25℃ unless otherwise noted)

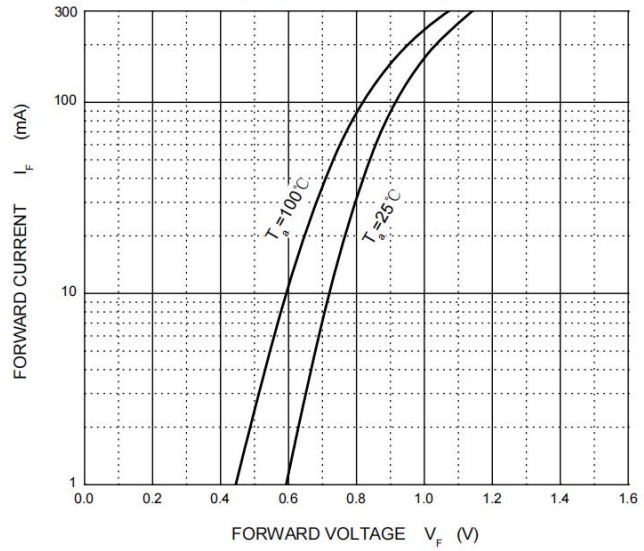
Symbol	Parameter	Value	Unit
V_R	Reverse Voltage	75	V
V_{RRM}	Reverse Voltage	85	V
I_F	Forward Current	150	mA
I_{FRM}	Repetitive Peak Forward Current	0.45	A
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.5	A
P_d	Power Dissipation	200	mW
$R_{\Theta JA}$	Thermal Resistance From Junction To Ambient	625	℃/W
T_J	Operation Junction Temperature Range	-40~+150	℃
T_{STG}	Storage Temperature Range	-55~+150	℃

Electrical Characteristics (Ta=25℃ unless otherwise noted)

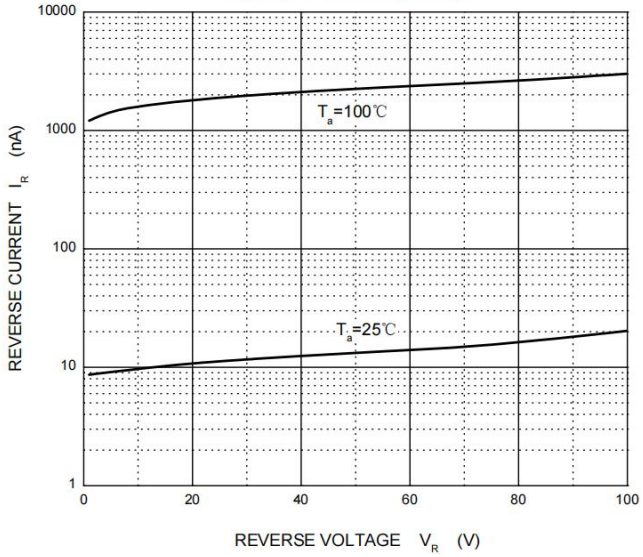
Symbol	Parameter	Test conditions	Min	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	I_R=100μA	70		V
I_R	Reverse current	V_R=75V		1	μA
V_F	Forward voltage	I_F=1mA		0.715	V
		I_F=10mA		0.855	V
		I_F=50mA		1	V
		I_F=150mA		1.25	V
C_T	Capacitance between terminals	V_R=0V, f=1MHz		1.5	pF
t_{rr}	Reverse recovery time	I_F=I_R=10mA,I_{rr}=0.1XI_R,R_L=100Ω		6	nS

Typical Characteristics

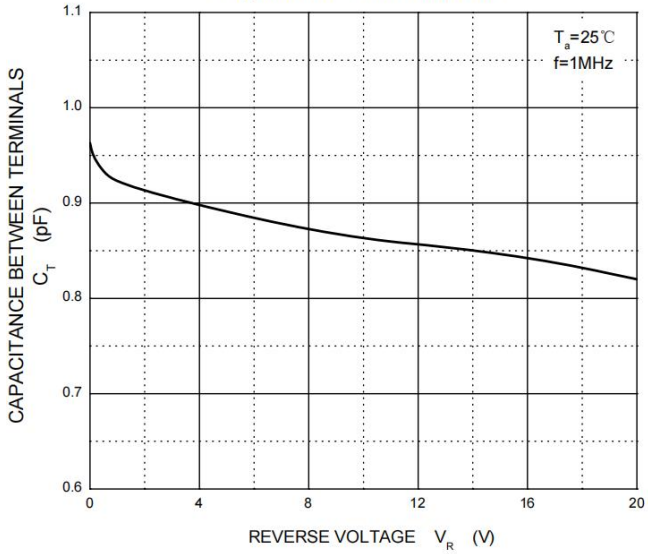
Forward Characteristics



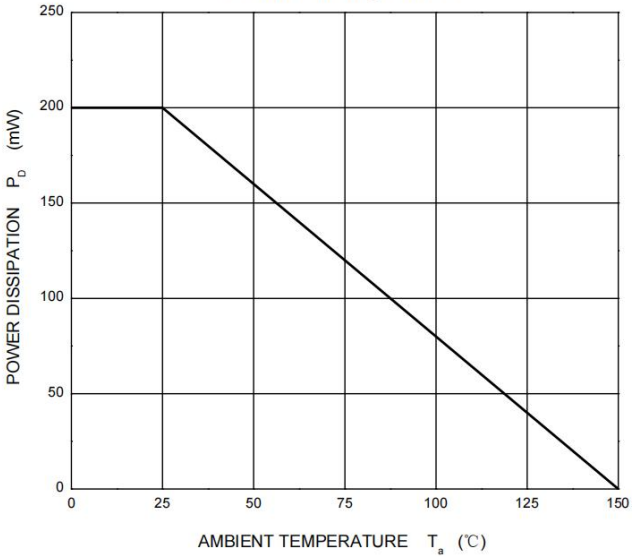
Reverse Characteristics



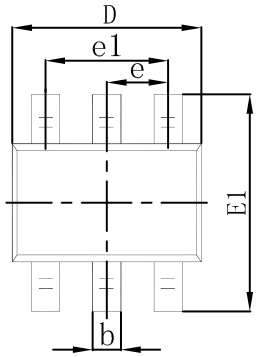
Capacitance Characteristics

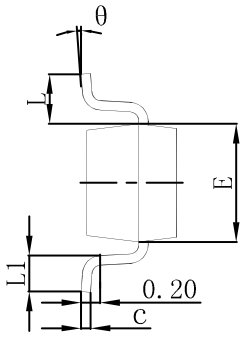


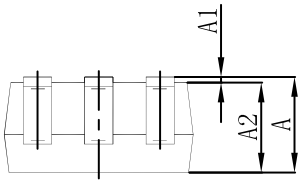
Power Derating Curve



SOT-363 Package Outline Dimensions

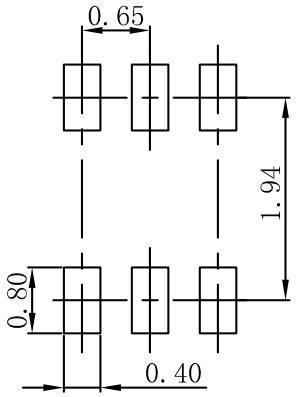






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650 TYP		0.026 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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