



Features

Fast Switching Speed.

High Conductance.

For General Purpose Switching Applications.

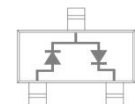
Surface Mount Package Ideally Suited for Automatic Insertion.



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HBAV99W115	SOT-323	KJG	3000

SOT-323



BAV99W

Maxmim Ratings (Ta=25 unless otherwise noted)

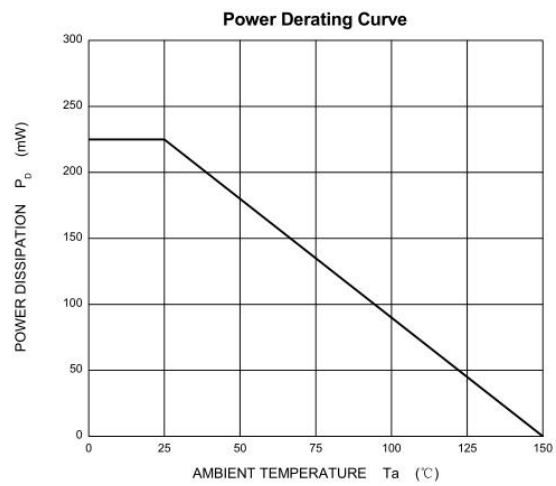
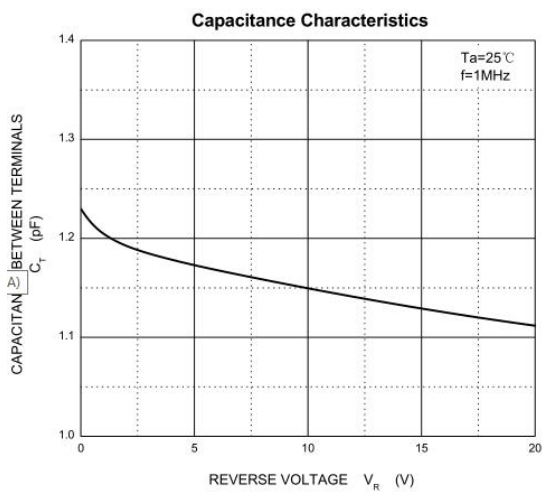
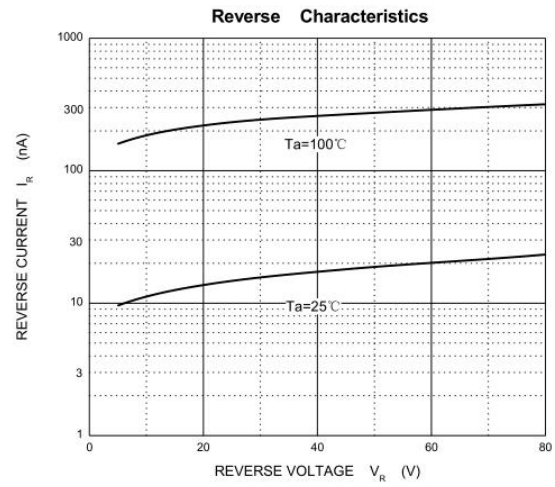
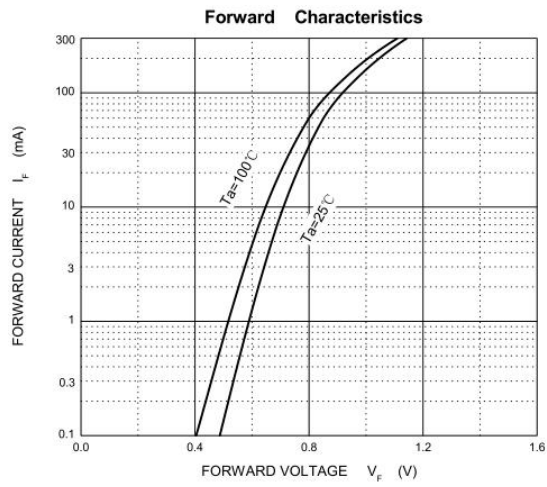
Symbol	Parameter	Value	Unit
V_R	Reverse Voltage	70	V
$V_{R(RMS)}$	RMS Reverse Voltage	71	V
I_F	Forward Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	A
P_d	Power Dissipation	225	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	550	°C/W
T_J	Operation Junction Temperature Range	-40~+125	°C
T_{STG}	Storage Temperature Range	-55~+150	°C

Electrcal Characteristics (Ta=25 unless otherwise noted)

Symbol	Parameter	Test conditions	Min	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=100\mu A$	70		V
I_R	Reverse current	$V_R=70V$		2.5	μA
		$V_R=20V$		25	nA
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	$I_F=I_R=10mA, I_{rr}=0.1I_R, R_L=100\Omega$		6	nS

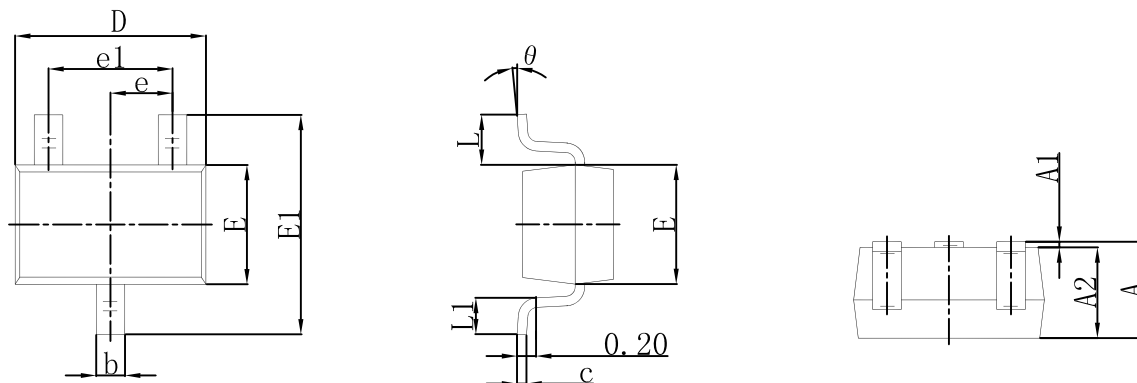


Typical Characteristics





SOT-323 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	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
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°



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