

FEATURES

Fast Switching Speed.

High Conductance.

For General Purpose Switching Applications.

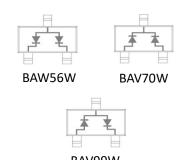
Surface Mount Package Ideally Suited for Automatic Insertion.



SOT-323

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAW56W	SOT-323	KJC	3000
BAV70W	SOT-323	KJA	3000
BAV99W	SOT-323	KJG	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

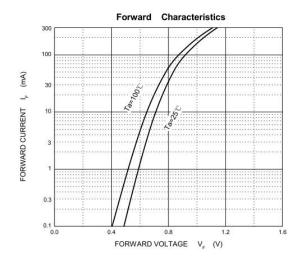
Symbol	Parameter	Value	Unit
V _R	Reverse Voltage	70	V
V _{R(RMS)}	RMS Reverse Voltage	71	V
I _F	Forward Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	Α
P _d	Power Dissipation	225	mW
R _{⊝JA}	Thermal Resistance From Junction To Ambient	550	°C/W
TJ	Operation Junction Temperature Range	-40~+125	$^{\circ}$ C
T _{STG}	Storage Temperature Range	-55~+150	$^{\circ}$ C

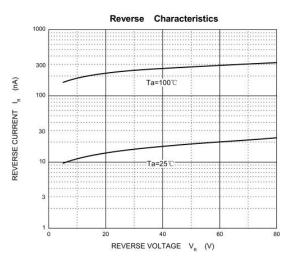
ELECTRICAL CHARACTERISTICS(Ta=25 unless otherwise noted)

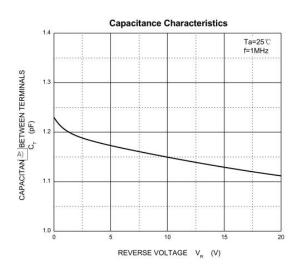
Symbol	Parameter	Test conditions	Min	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	I _R =100μ A	70		V
I _R	Poverse current	V _R =70V		2.5	μА
	Reverse current	V _R =20V		25	nA
V _F Fo		I₅=1mA		0.715	V
	Forward voltage	I _F =10mA		0.855	V
		I _F =50mA		1	V
		I _F =150mA		1.25	V
Ст	Capacitance between terminals	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

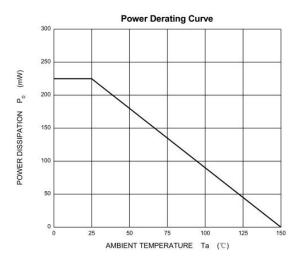


Typical Characteristics



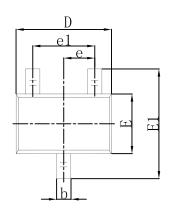


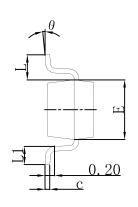


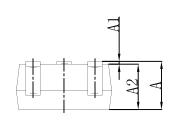




SOT-323 Package Outline Dimensions







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	0.200	0.400	0.008	0.016	
С	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	
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°	

BAW56W/BAV70W/BAV99W Switching Diodes

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