

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)
BAW56W	SOT-323	KJC	3000
BAV70W	SOT-323	KJA	3000
BAV99W	SOT-323	KJG	3000





BAW56W BAV70W



Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
VR	Reverse Voltage	70	V
V _{R(RMS)}	RMS Reverse Voltage	71	V
lF	Forward Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	А
Pd	Power Dissipation	225	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	550	°C/W
TJ	Operation Junction Temperature Range	-40~+125	°C
T _{STG}	Storage Temperature Range	-55~+150	°C

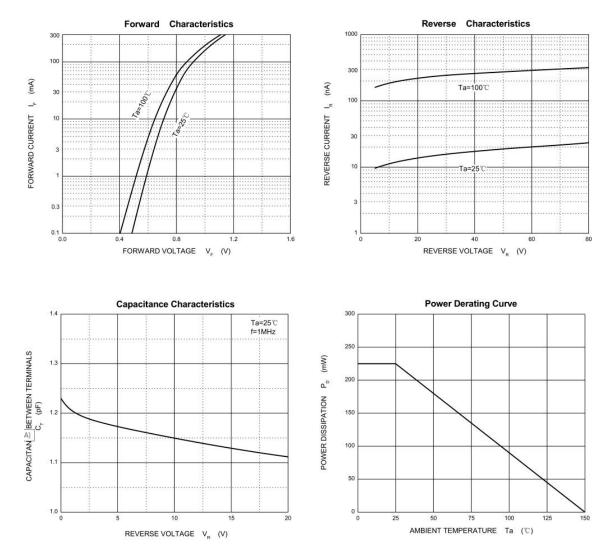
Electrcal Charcteristics (Ta=25 unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Max	Unit
V _(BR)	Reverse breakdown voltage	I _R =100μA	70		V
I _R I	Deveree eurrent	V _R =70V		2.5	μ A
	Reverse current	V _R =20V		25	nA
V _F For	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	$I_F=I_R=10mA, I_{rr}=0.1XI_R, R_L=100\Omega$		6	nS



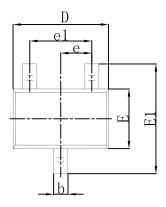
BAW56W/BAV70W/BAV99W Switching Diodes

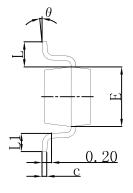
Typical Characteristics

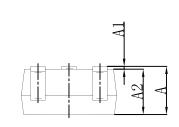




SOT-323 Package Outline Dimensions







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
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°



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