



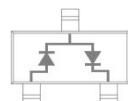
Features

- 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)
BAS70W-04-7-F	SOT-323	KJG	3000



Maximum Ratings (Ta=25°C unless otherwise noted)

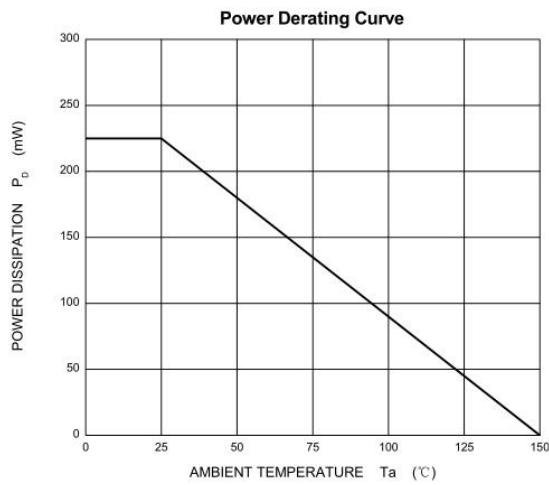
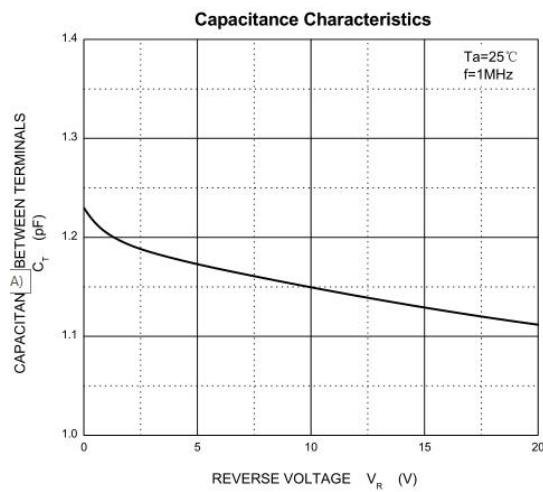
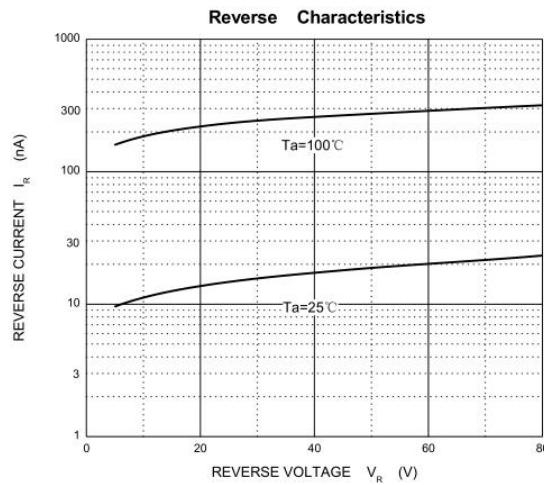
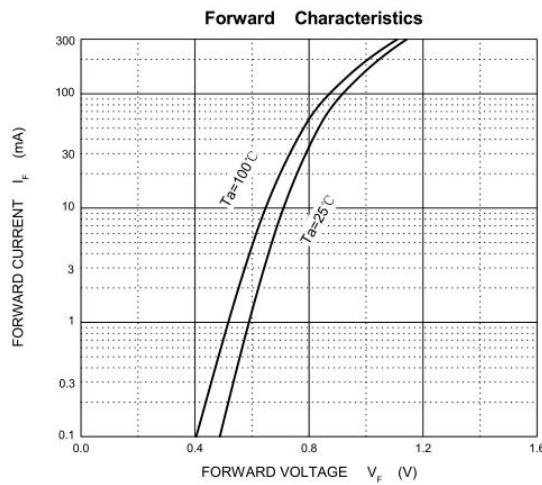
Symbol	Parameter	Value	Unit
V _R	Reverse Voltage	70	V
V _R (RMS)	RMS Reverse Voltage	71	V
I _F	Forward Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	A
P _d	Power Dissipation	225	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	550	°C/W
T _J	Operation Junction Temperature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

Electrical Characteristics (Ta=25°C 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 =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} =0.1XI _R , R _L =100Ω		6	nS

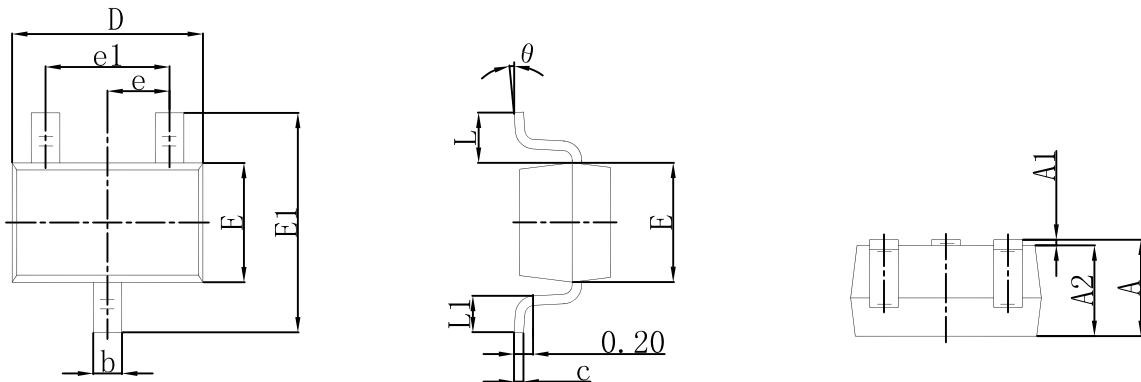


Typical Characteristics





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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