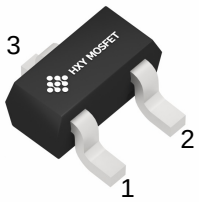
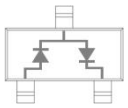
Features

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

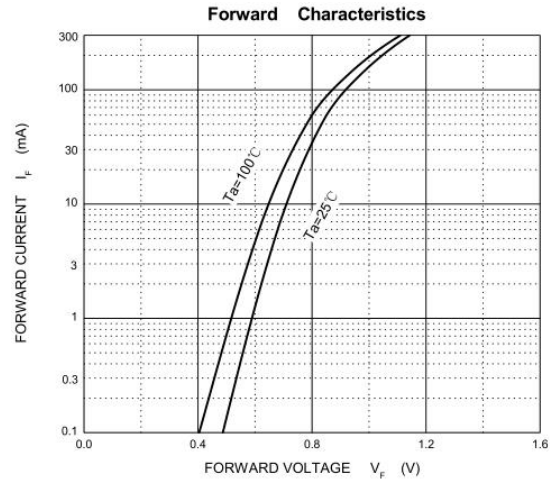
Maximum Ratings (Ta=25°C unless otherwise noted)

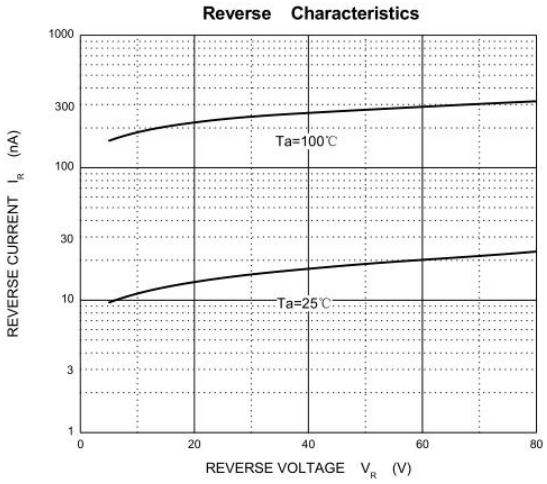
Symbol	Parameter	Value	Unit
V_R	Reverse Voltage	70	V
$V_{R(RMS)}$	RMS Reverse Voltage	71	V
I_F	Forward Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	A
P_d	Power Dissipation	225	mW
$R_{\Theta JA}$	Thermal Resistance From Junction To Ambient	550	°C/W
T_J	Operation Junction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

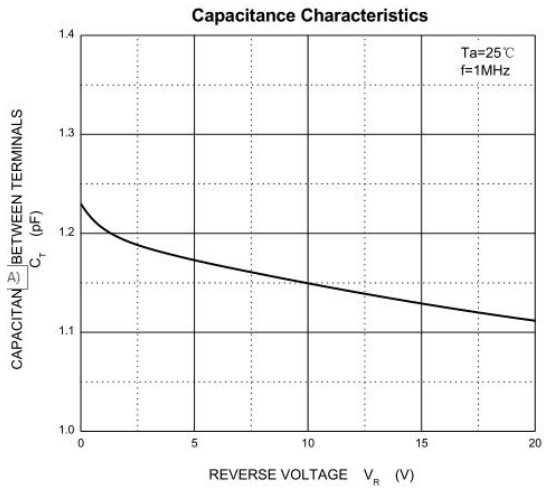
Electrical Characteristics (Ta=25°C unless otherwise noted)

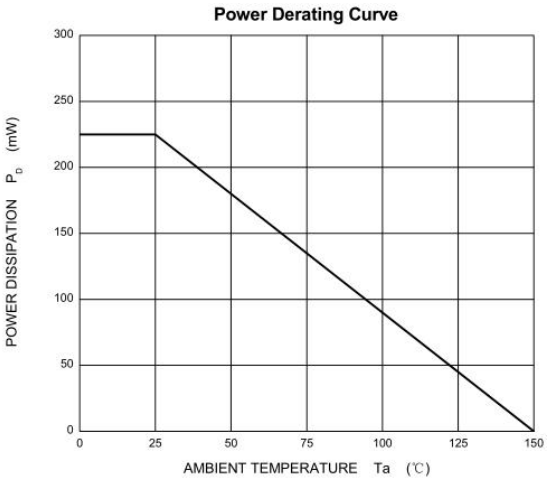
Symbol	Parameter	Test conditions	Min	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	I_R=100μA	70		V
I_R	Reverse current	V_R=70V		2.5	μA
		V_R=20V		25	nA
V_F	Forward voltage	I_F=1mA		0.715	V
		I_F=10mA		0.855	V
		I_F=50mA		1	V
		I_F=150mA		1.25	V
C_T	Capacitance between terminals	V_R=0V, f=1MHz		1.5	pF
t_{rr}	Reverse recovery time	I_F=I_R=10mA,I_{rr}=0.1XI_R,R_L=100Ω		6	nS

Typical Characteristics

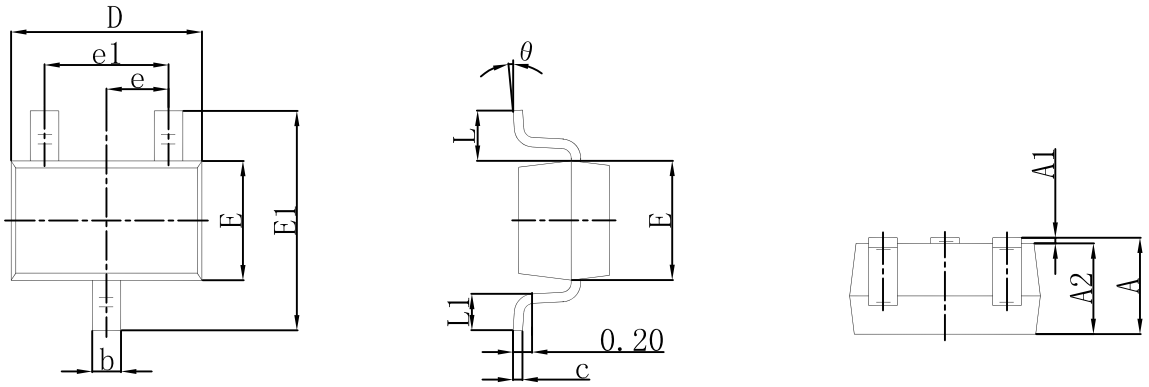








SOT-323 Package Outline Dimensions



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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RLSD32A121V BV05C-H HSEN2411D3 PJSD24CW_R1 60N06 AQ15C-01FTG TPSMB100CA-VR
HCEZ36V,L3F PESDLC2FD3V3BH PESDSC2FD5VU AZ4836-01L ESD5L5.0C-HXY ESD5LM5.0C-HXY
HRCLAMP3371ZCTFT HSTS521050B331 PESDNC2XD5VBL PJEC5V0M1FN2 AZ4007-01H
HACPDQC5V0-HF HPTVSUC3D5VB HSG3D15B3.3MA LM393DR-HXY HSEN3611D3 PESDNC2XD5VBF