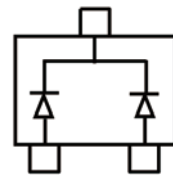


Features

- Low turn-on voltage
- Fast switching
- Also available in lead free version



SOT-323



Equivalent Circuit

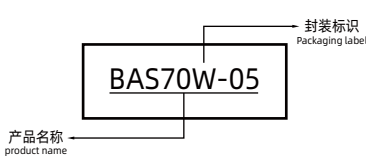
Absolute Maximum Ratings(TA=25℃)

Symbol	Parameter	Value	Uniat
V_R	DC Blocking Voltage	70	V
I_F	Forward Continuous Current	70	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	100	mA
P_d	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	500	℃/W
T_J	Operating Junction Temperature Range	-40~+125	℃
T_{stg}	Storage Temperature Range	-55~+150	℃

Electrical Characteristics (TA=25℃ unless otherwise specified)

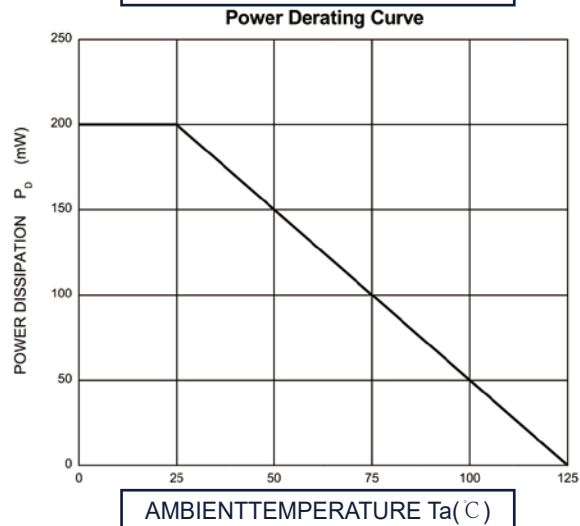
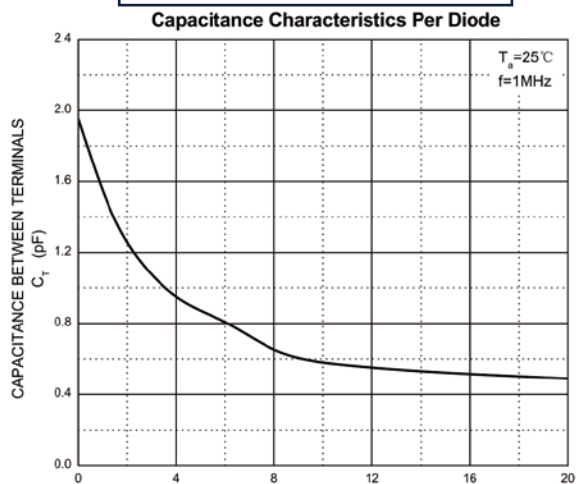
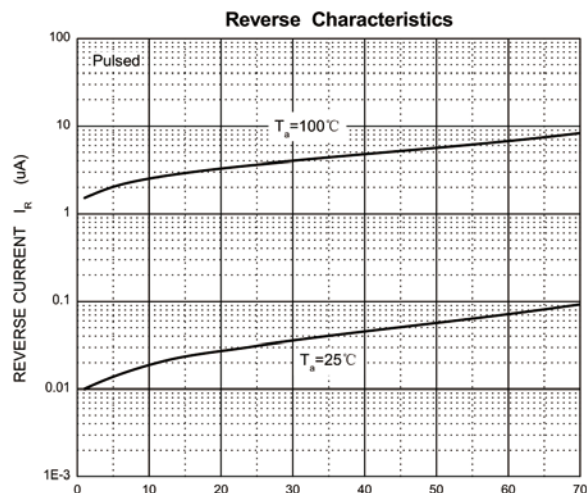
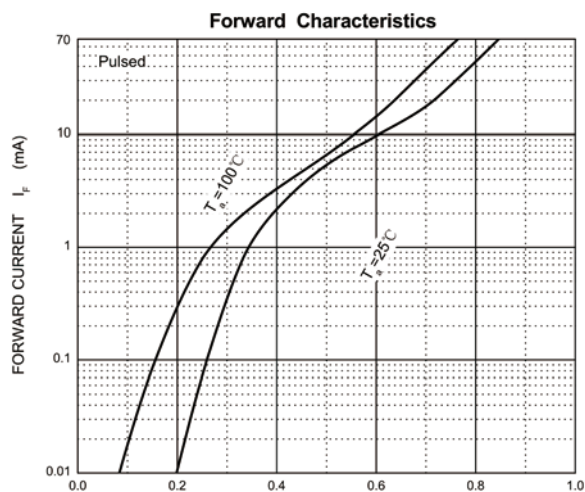
Symbol	Parameter	Test conditions	Min	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=10\mu A$	70		V
I_R	Reverse current	$V_R=50V$		100	nA
V_F	Forward voltage	$I_F=1mA$		410	mV
		$I_F=15mA$		1000	mV
C_D	Diode capacitance	$V_R=0V, f=1MHz$		2	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10mA, I_{rr}=0.1I_R, R_L=100\Omega$		5	nS

Ordering information

Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAS70W-05	K75		SOT-323	3000

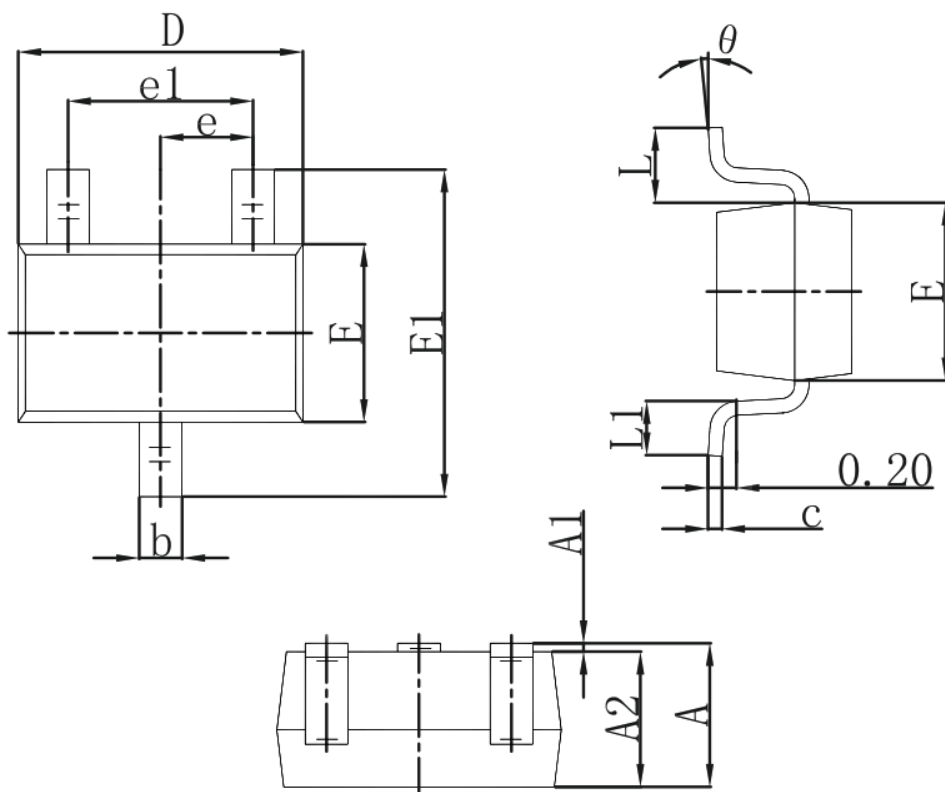


Typical Characteristics





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	1.350	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°