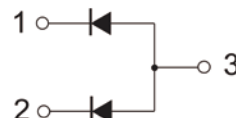


Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductanc



SOT-323



Equivalent Circuit

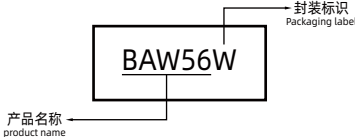
Absolute Maximum Ratings(TA=25℃)

Symbol	Parameter	Value	Uniat
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Peak Reverse Voltage	75	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	53	V
I_{FM}	Forward Continuous Current	300	mA
I_O	Average Rectified Output Current	150	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	A
P_d	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	625	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

Electrical Characteristics (TA=25℃ unless otherwise specified)

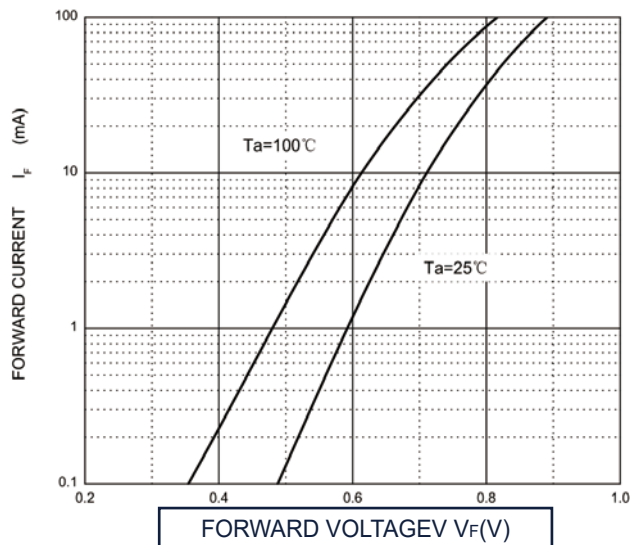
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=2.5\mu A$	75			V
V_{F1}	Forward voltage	$I_F=1mA$			0.715	V
V_{F2}		$I_F=10mA$			0.855	V
V_{F3}		$I_F=50mA$			1.0	V
V_{F4}		$I_F=150mA$			1.25	V
I_{R1}	Reverse current	$V_R=75V$			2.5	μA
I_{R2}		$V_R=20V$			25	nA
C_T	Capacitance between terminals	$V_R=0V, f=1MHz$			2	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$			4	nS

Ordering information

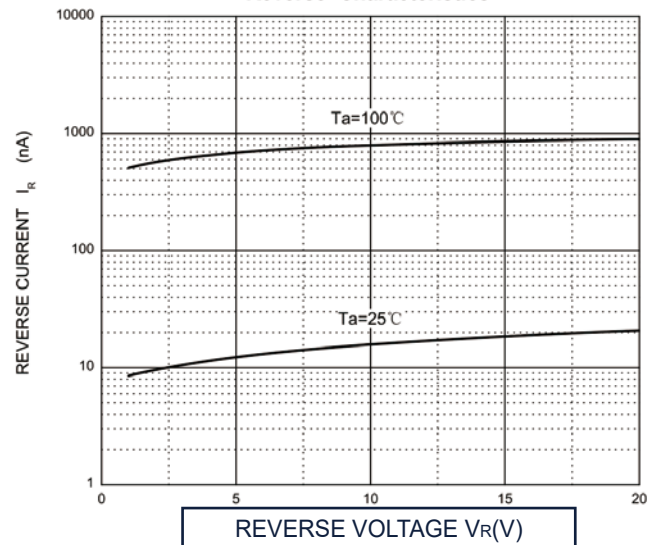
Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAW56W	A1		SOT-323	3000
	KJC			

Typical Characteristics

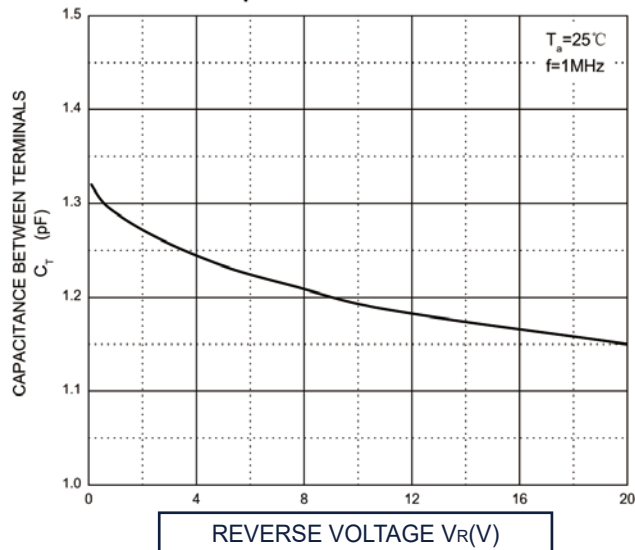
Forward Characteristics



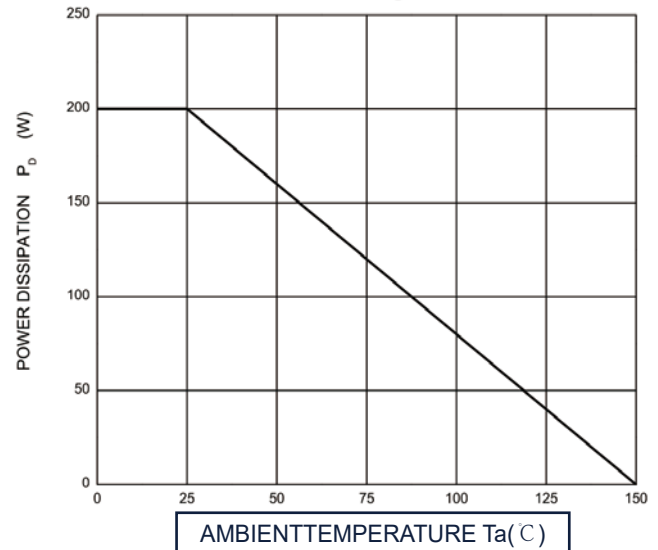
Reverse Characteristics



Capacitance Characteristics

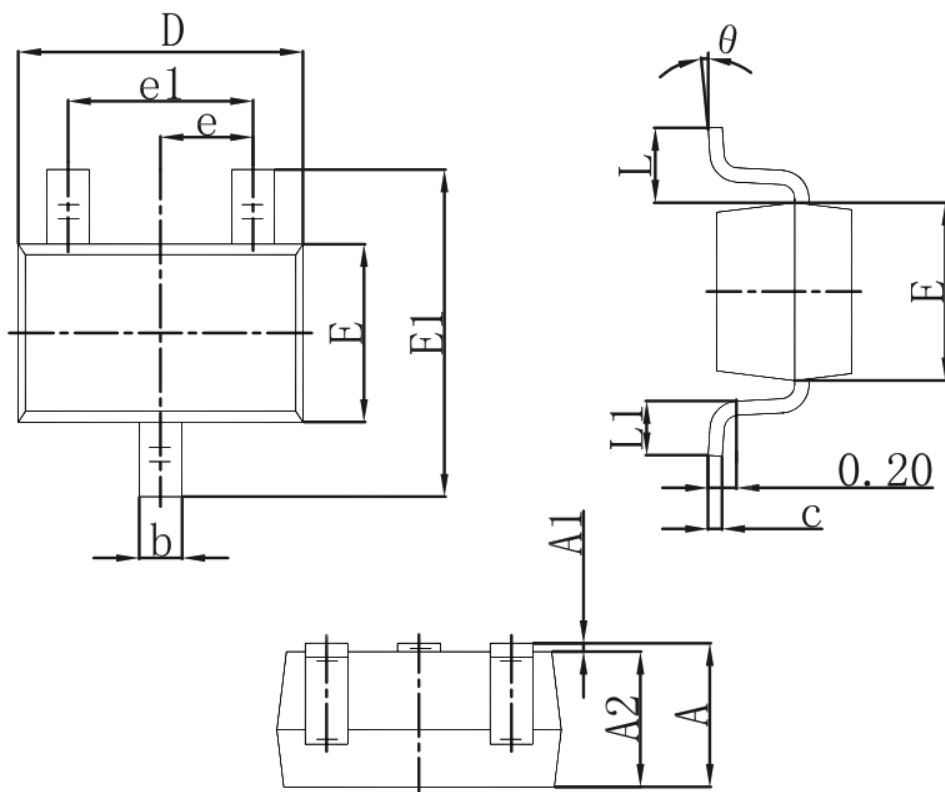


Power Derating Curve





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°