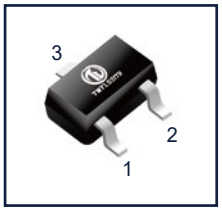
TL-BAS40W-04

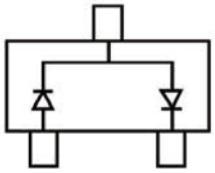
SOT-323 SCHOTTKY BARRIER DIODE

Features

- Low Forward Voltage
- Fast Switching



SOT-323



Equivalent Circuit

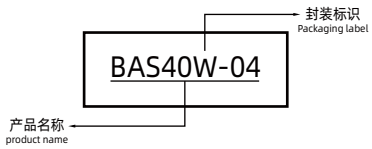
Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Uniat
V_{RRM}	Peak Repetitive Peak Reverse Voltage	40	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
I_{FM}	Forward Continuous Current	200	mA
P_d	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	667	℃/W
T_J	Operating Junction Temperature Range	-40~+125	℃
T_{stg}	Storage Temperature Range	-55~+150	℃

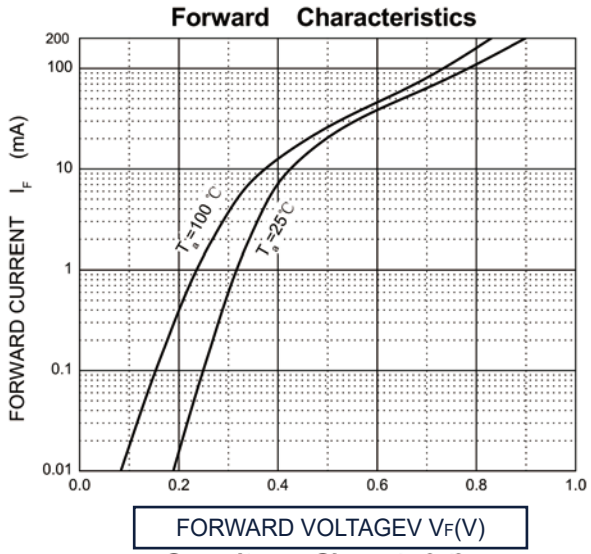
Electrical Characteristics (T_A=25℃ unless otherwise specified)

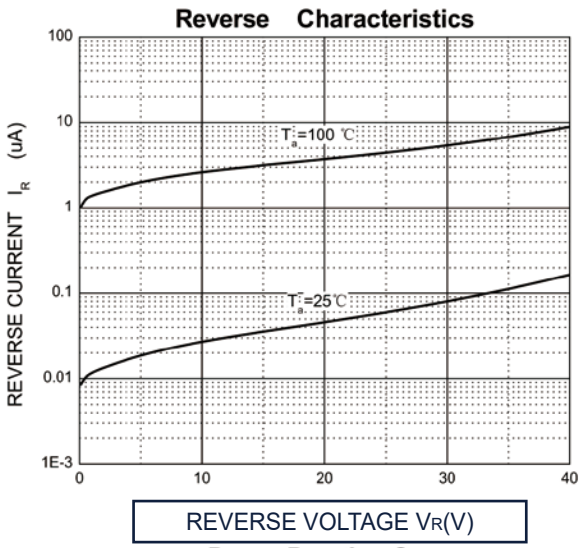
Symbol	Parameter	Test conditions	Min	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	I_R=10μA	40		V
I_R	Reverse current	V_R=30V		200	nA
V_F	Forward voltage	I_F=1mA		380	mV
		I_F=40mA		1000	mV
C_D	Diode capacitance	V_R=0V, f=1MHz		5	pF
t_{rr}	Reverse recovery time	I_{rr}=1mA,I_R=I_F=10mA,R_L=100Ω		5	nS

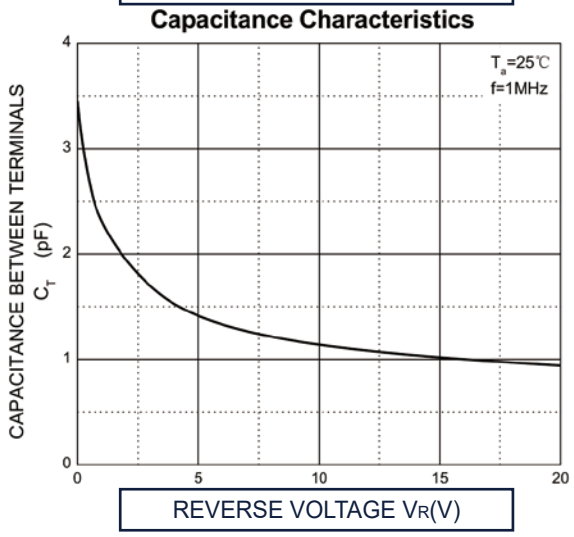
Ordering information

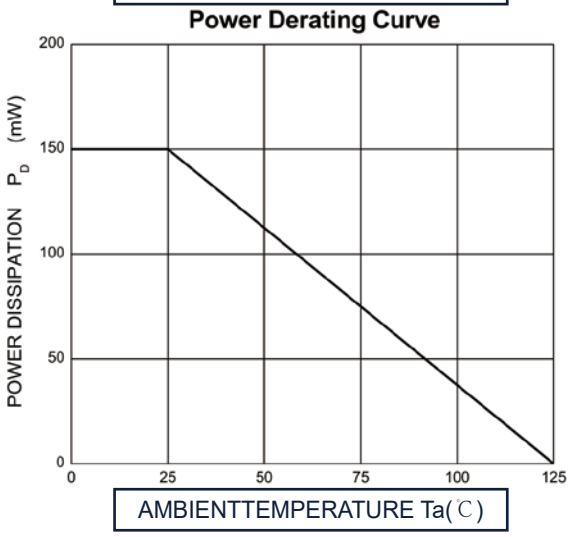
Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAS40W-04	44		SOT-323	3000

Typical Characteristics

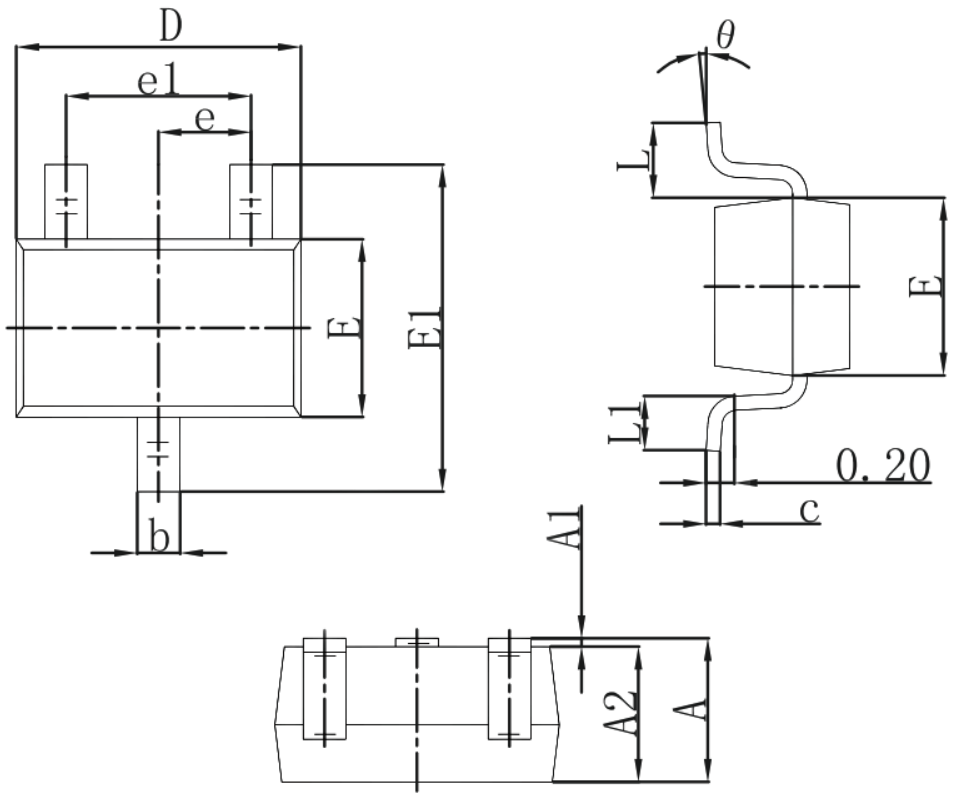








SOT-323 Package Outline Dimensions



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°