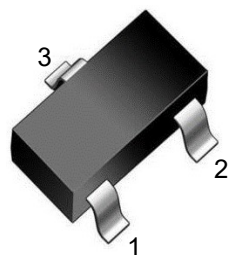
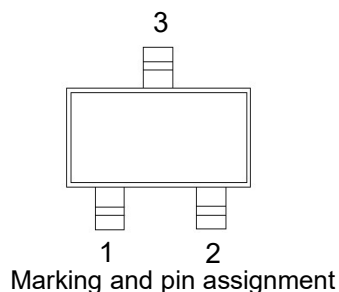
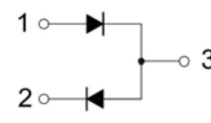


SCHOTTKY BARRIER DIODE
Features

- Small Package
- Low Forward Voltage
- High Speed Switching



SOT-323 top view



Schematic diagram



Pb-Free


RoHS

Halogen-Free
Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)

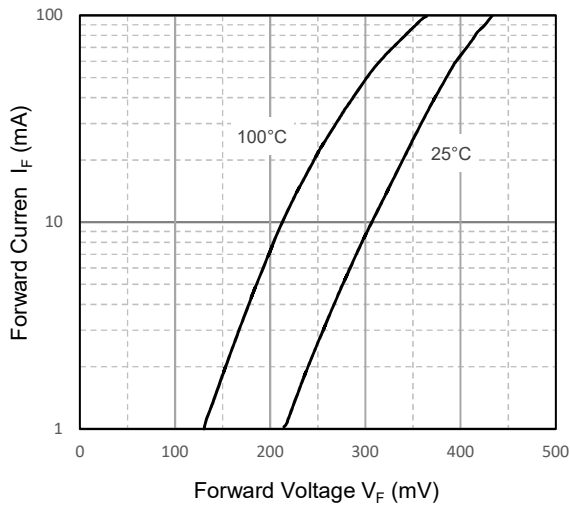
Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	10	V
I_O	Average Rectified Output Current	100	mA
I_{FM}	Forward Continuous Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@ $t=8.3\text{ms}$	1	A
P_D	Power Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	1000	$^\circ\text{C}/\text{W}$
T_J	Operating Junction Temperature Range	-40~+125	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~+150	$^\circ\text{C}$

Electrical Characteristics ($T_J=25^\circ\text{C}$ unless otherwise noted)

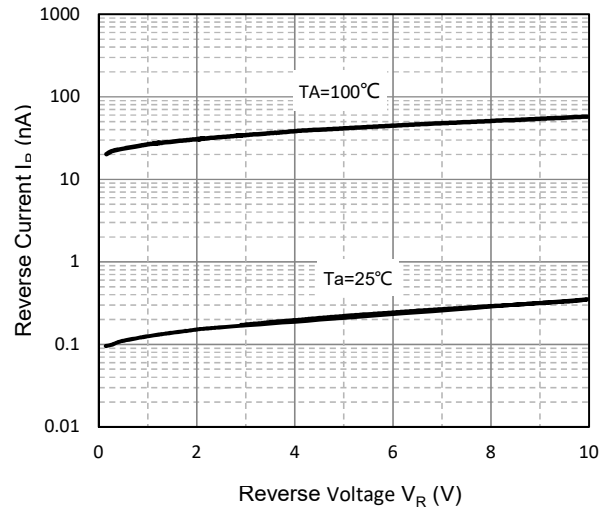
Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=100\mu\text{A}$	10	--	--	V
I_R	Reverse current	$V_R=10\text{V}$	--	--	20	μA
V_F	Forward voltage	$I_F=1\text{mA}$	--	0.18	--	V
		$I_F=5\text{mA}$	--	0.3	--	V
		$I_F=100\text{mA}$	--	--	0.5	V
C_{tot}	Capacitance between terminals	$V_R=0\text{V}, f=1\text{MHz}$	--	--	40	pF

Typical Operating Characteristics

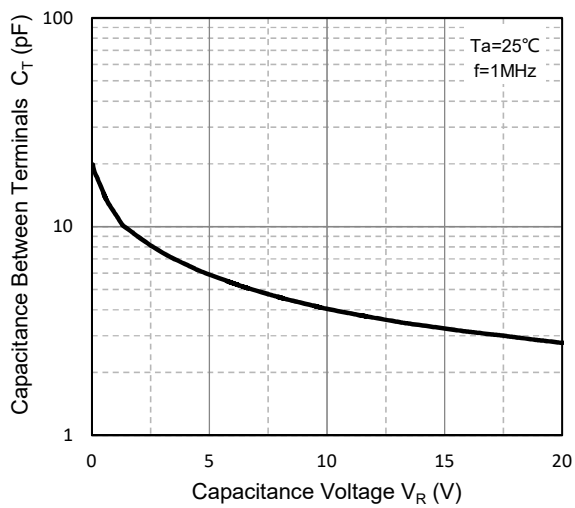
Forward Characteristics



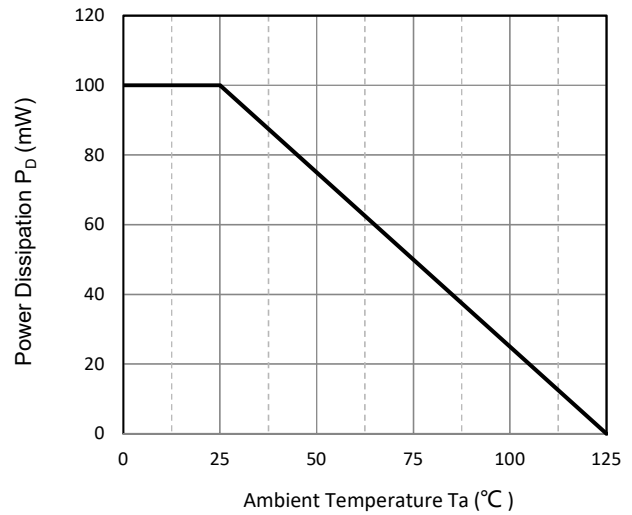
Reverse Characteristics



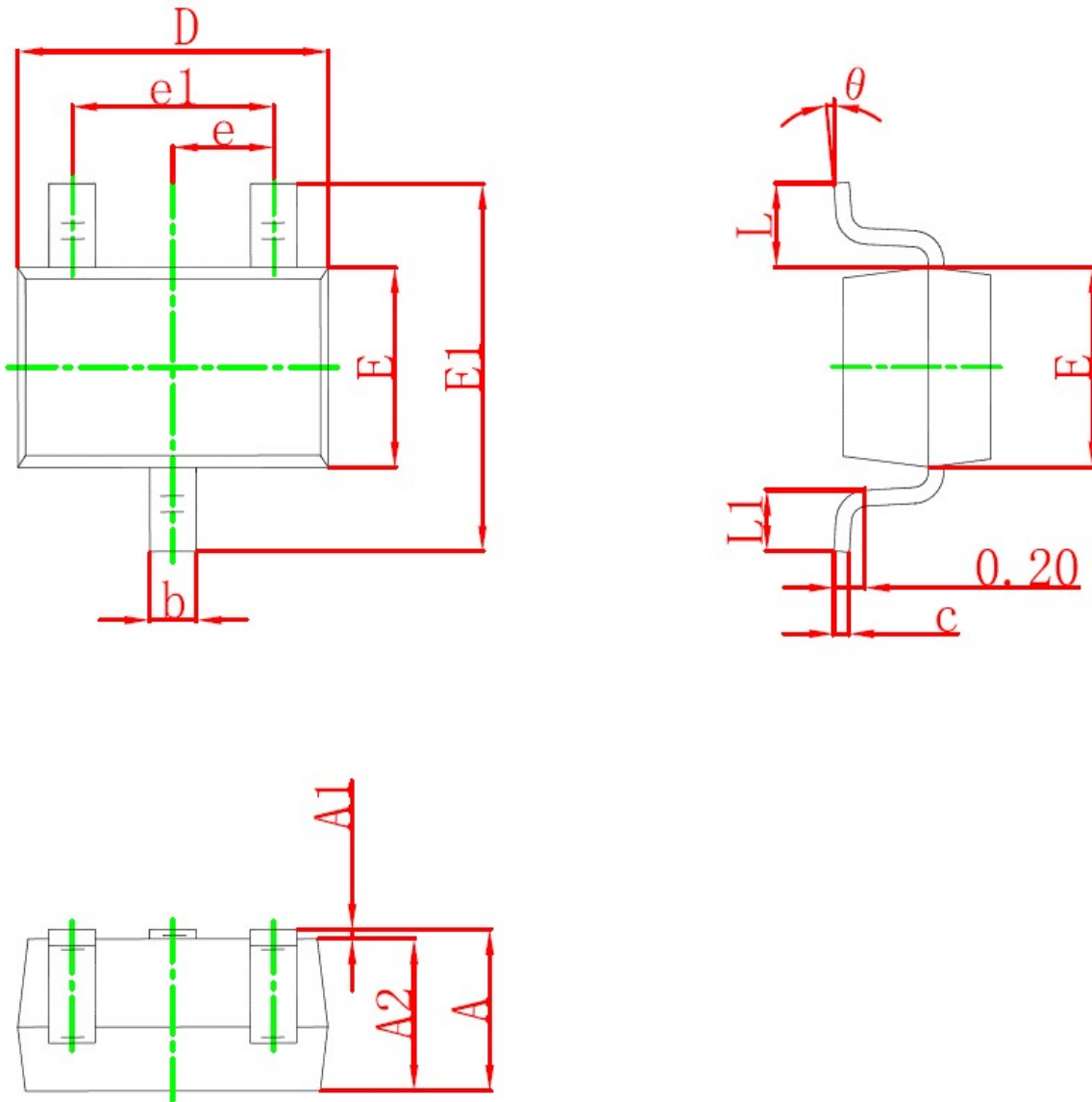
Capacitance Characteristics



Power Derating Curve



SOT-323 Package information



Symbol	Dimensions in Millimeters(mm)		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	0.650TYP		0.026TYP	
e1	1.200	1.400	0.047	0.055
L	0.525REF		0.021REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°