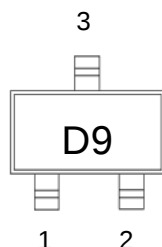
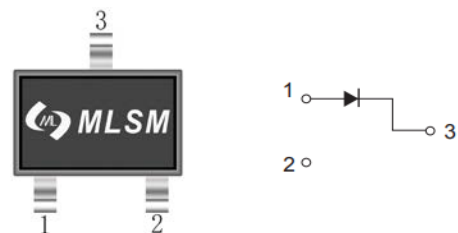


Features

- Low Forward Voltage
- Low reverse current
- Small total capacitance



Marking and pin assignment



SOT-323 top view Schematic diagram



Halogen-Free

Maximum Ratings @Ta=25°C

Symbol	Parameter	Limit	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	25	V
V_R	DC Blocking voltage	20	V
V_{RRM}	Peak Repetitive Peak Reverse Voltage		
V_{RWM}	Working Peak Reverse Voltage		
I_{FM}	Forward Continuous Current	700	mA
I_o	Average Rectified Output Current	300	mA
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	1000	°C/W
T_J	Operating Junction Temperature Range	-40 ~ +125	°C
T_{STG}	Storage Temperature Range	-55~ +150	°C

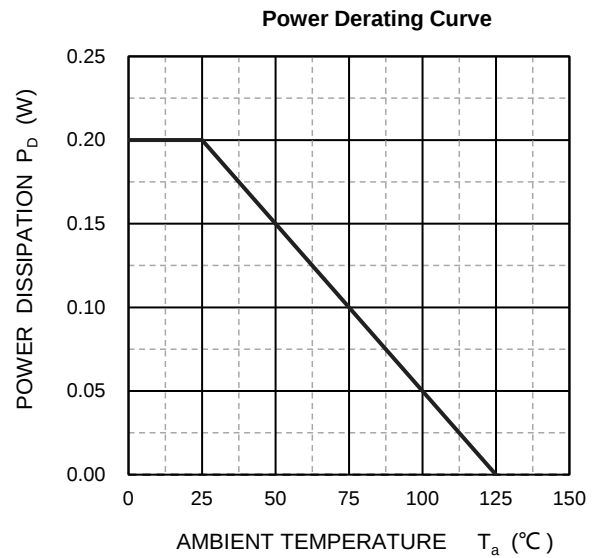
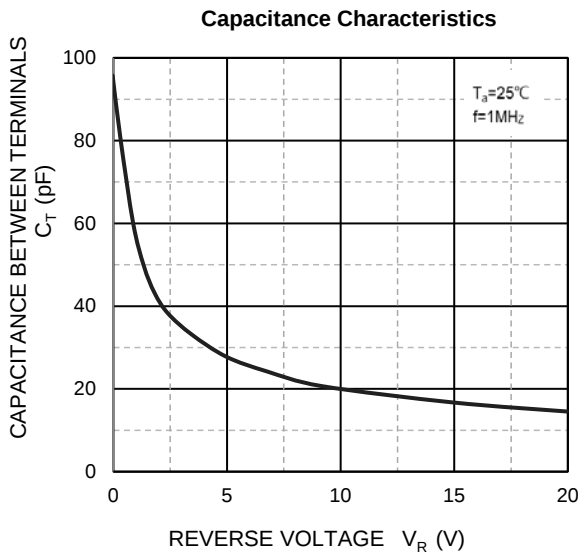
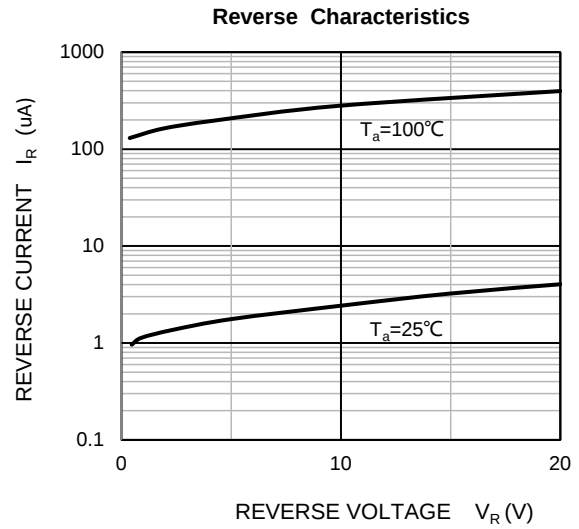
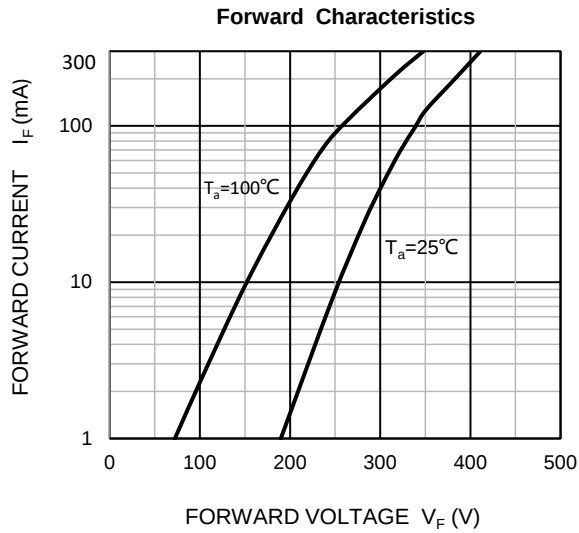
Electrical Characteristics @Ta=25°C

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=100\mu A$	20	--	--	V
I_R	Reverse current	$V_R=20V$	--	--	50	μA
V_F	Forward voltage	$I_F=1mA$	--	0.16	--	V
		$I_F=10mA$	--	0.22	--	V
		$I_F=300mA$	--	0.38	0.45	V
C_T	Capacitance between terminals	$V_R=0V, f=1MHz$	--	--	100	pF

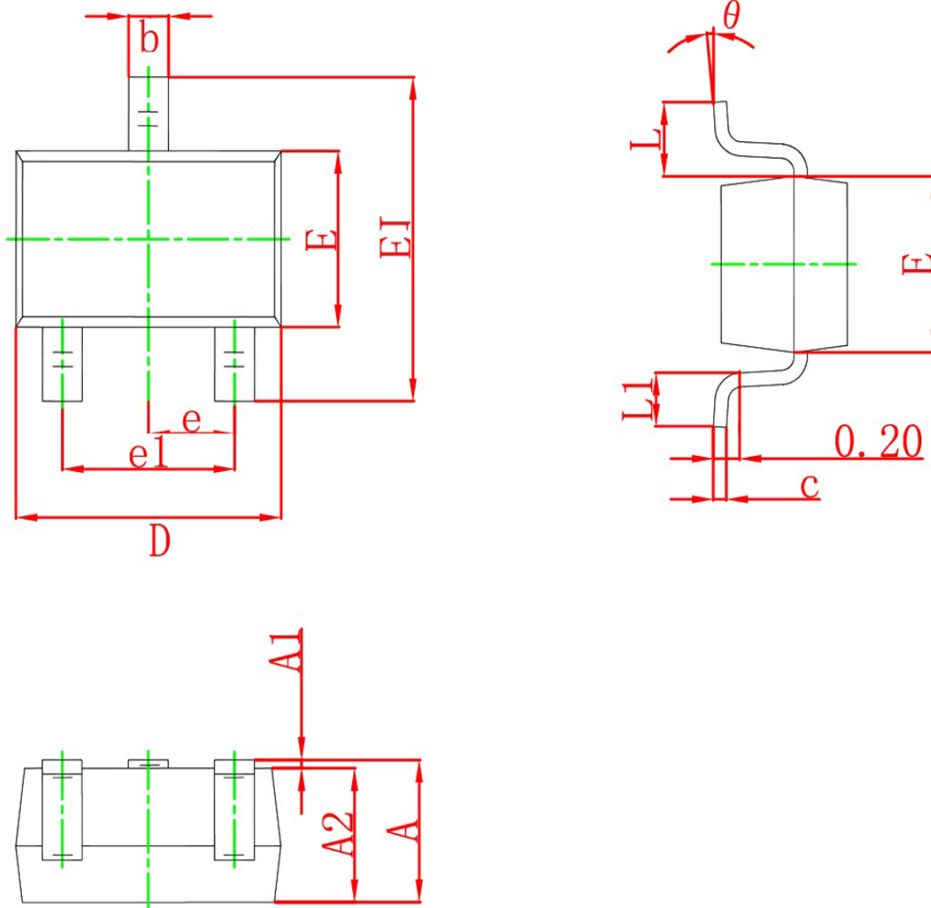
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
1SS401	SOT-323	D9	3,000	45,000	180,000	7" reel

Typical Operating Characteristics



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°