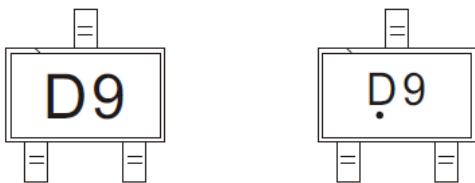
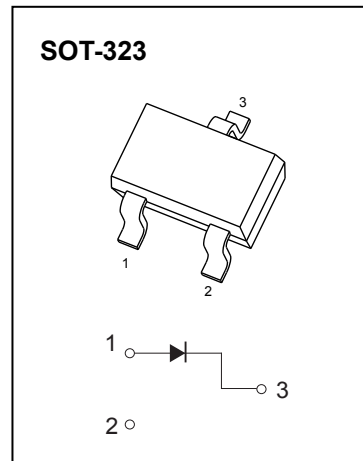


Schottky Barrier Diode

FEATURES

- Low forward voltage
- Low reverse current
- Small total capacitance

MARKING: D9



The marking bar indicates the cathode  
 Solid dot = Green molding compound device, if none,  
 the normal device.

Maximum Ratings @Ta=25°C

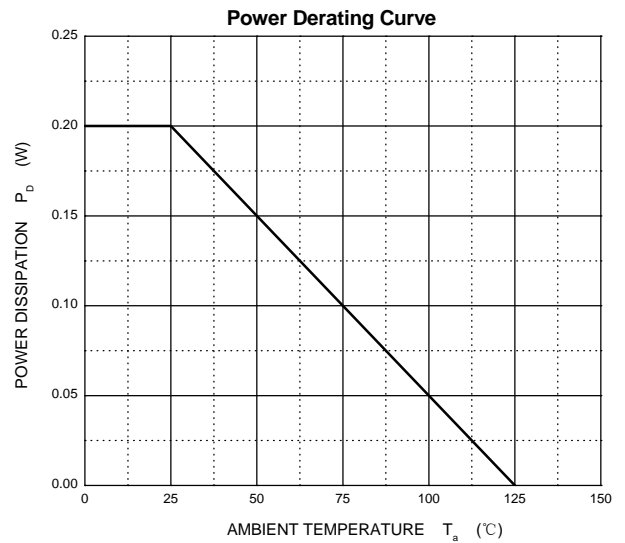
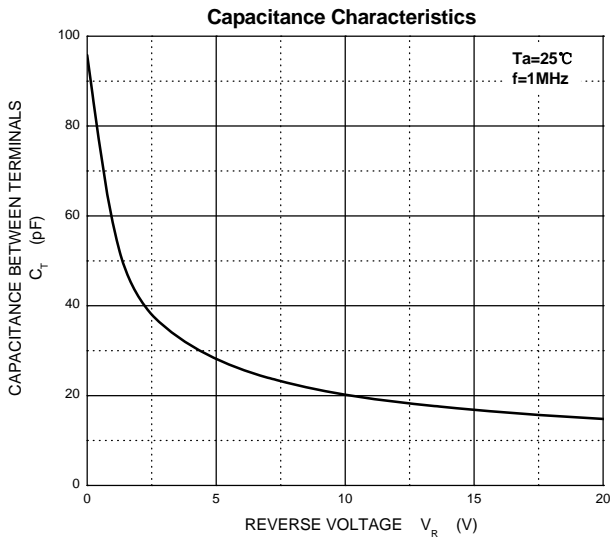
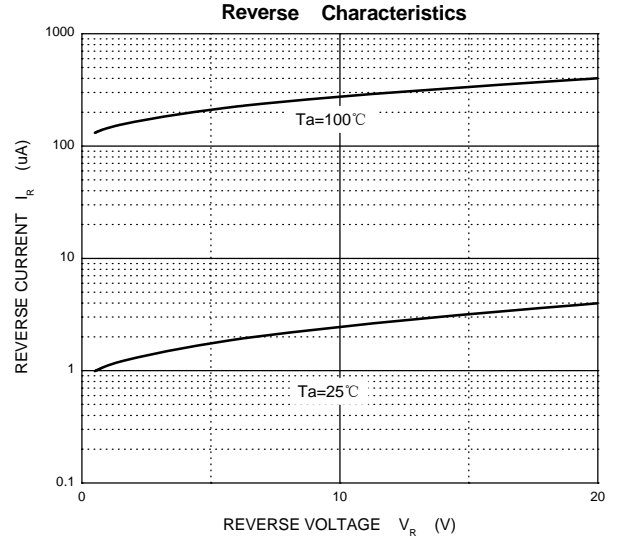
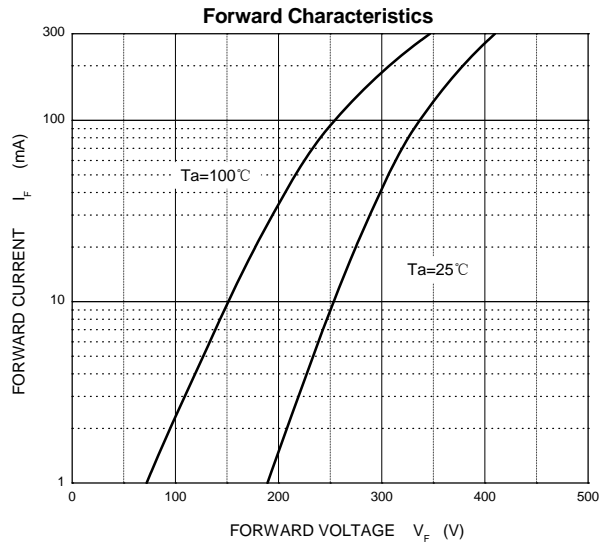
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	25	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	20	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_{FM}$	700	mA
Average Rectified Output Current	$I_O$	300	mA
Power Dissipation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

Electrical Characteristics @Ta=25°C

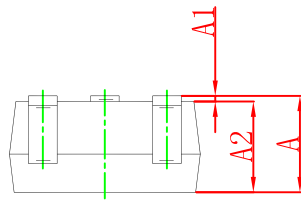
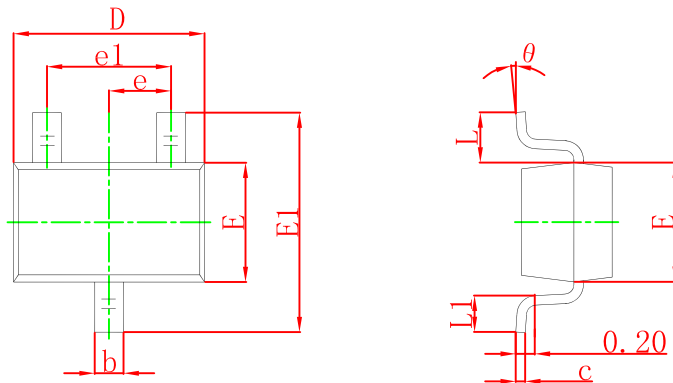
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	20			V	$I_R=100\mu A$
Forward voltage	$V_{F1}$		0.16		V	$I_F=1mA$
	$V_{F2}$		0.22		V	$I_F=10mA$
	$V_{F3}$		0.38	0.45	V	$I_F=300mA$
Reverse current	$I_R$			50	uA	$V_R=20V$
Capacitance between terminals	$C_T$			100	pF	$V_R=0, f=1MHz$



Typical Characteristics

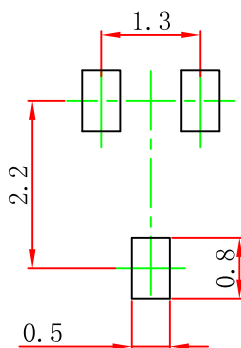


SOT-323 Package Outline Dimensions



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	2.150	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°

SOT-323 Suggested Pad Layout



- Note:
1. Controlling dimension: in millimeters.
  2. General tolerance: ±0.05mm.
  3. The pad layout is for reference purposes only.