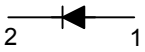
SD103AWS
SCHOTTKY BARRIER DIODE

■ FEATURES

* Low forward voltage drop
* Guard ring construction for transient protection
* Negligible reverse recovery time
* Low reverse capacitance

SYMBOL

SOD-323



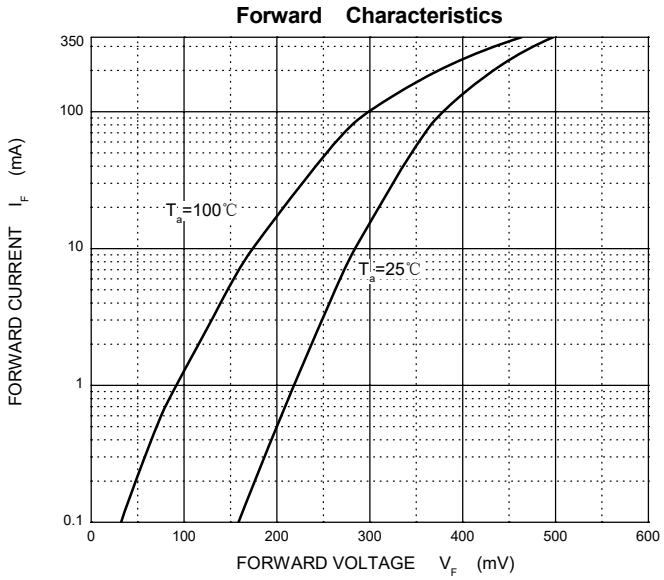
■ ABSOLUTE MAXIMUM RATINGS (T_A=25℃, unless otherwise specified)

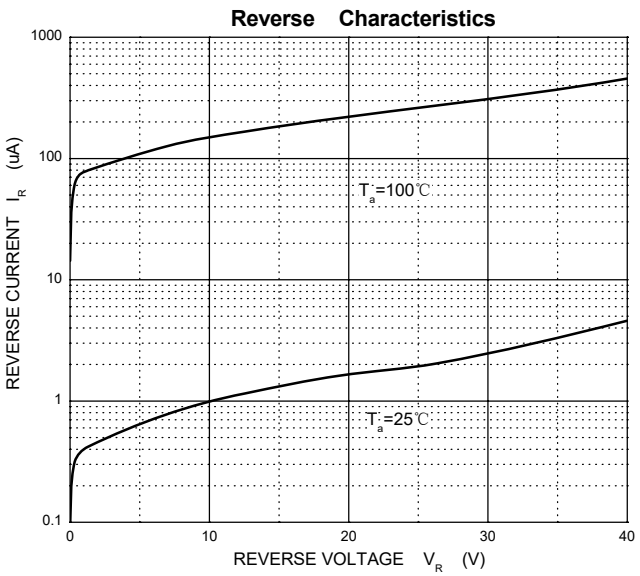
Parameter	Symbol	Rating	Unit
Peak repetitive peak reverse voltage	V_{RRM}	40	V
Work peak reverse voltage	V_{RWM}	40	V
DC blocking voltage	V_R	40	V
RMS reverse voltage	$V_{R(RMS)}$	28	V
Forward continuous current	I_{FM}	350	mA
Non-repetitive peak forward surge current@t=8.3ms	I_{FSM}	2.0	A
Power dissipation	Pd	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	℃/W
Junction temperature	T_j	-40~+125	℃
Storage temperature	T_{STG}	-55~+150	℃

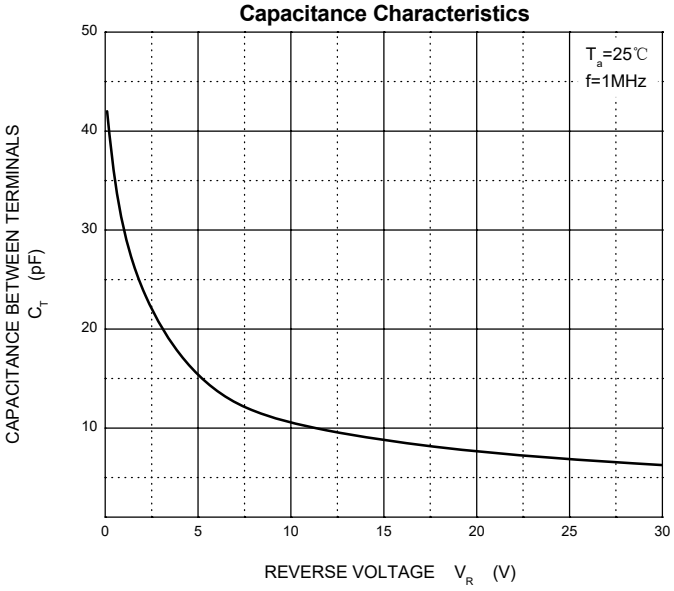
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

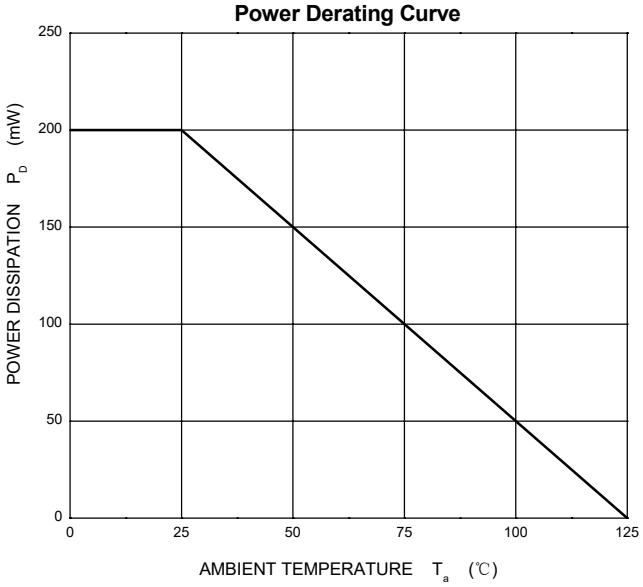
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I_R=100μA	40	-	-	V
Forward voltage	V_F	I_F=20mA	-	-	0.37	V
		I_F=200mA	-	-	0.60	V
Reverse current	I_{RM}	V_R=30V	-	-	5.0	μA
Capacitance between terminals	C_T	V_R=0V,f=1.0MHz	-	-	50	pF
Reverse recovery time	t_{rr}	I_F=I_R=200mA Irr=0.1XI_R,R_L=100Ω	-	10	-	ns

■ TYPICAL CHARACTERISTICS

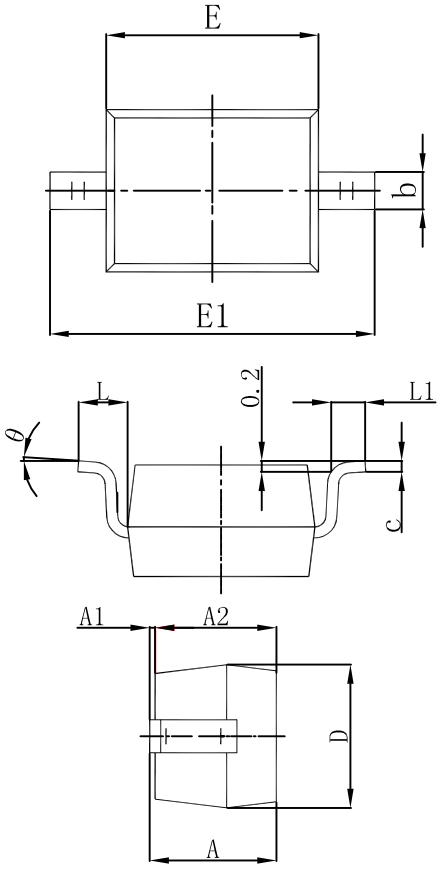








■ SOD323 PACKAGE OUTINE DIMENSIONS



Symbol	Dimensions In Millimeters	
	Min	Max
A		1.100
A1	0.000	0.100
A2	0.800	1.000
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.750
L	0.475 REF	
L1	0.250	0.400
θ	0°	8°