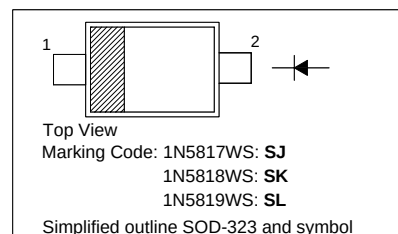


1 A Surface Mount Schottky Barrier Diode

1N5817WS~1N5819WS

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



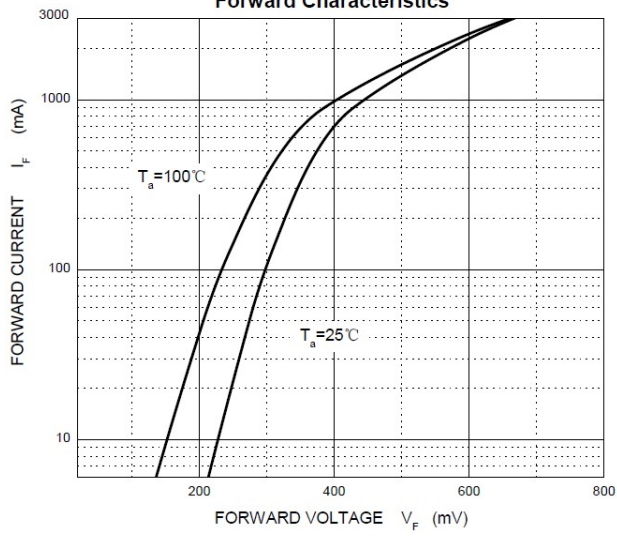
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	20 30 40	V
Average Forward Rectified Current	$I_{F(AV)}$	1	A
Non-Repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	9	A
Power Dissipation	P_{tot}	250	mW
Operating Temperature Range	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

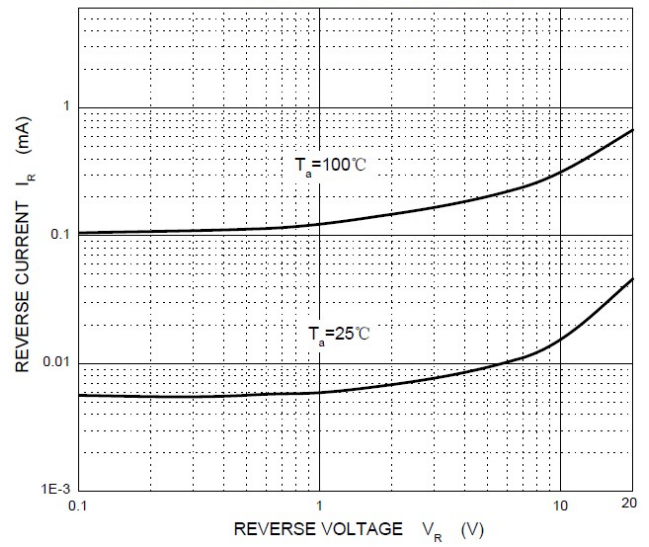
Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1 \text{ mA}$	$V_{(BR)R}$	20 30 40	- - -	V
Forward Voltage at $I_F = 1 \text{ A}$	V_F	- - -	0.45 0.55 0.6	V
at $I_F = 3 \text{ A}$		- - -	0.75 0.875 0.9	
Reverse Voltage Leakage Current at $V_R = 20 \text{ V}$ at $V_R = 30 \text{ V}$ at $V_R = 40 \text{ V}$	I_R	- - -	1 1 1	mA
Total Capacitance at $V_R = 4 \text{ V}$, $f = 1 \text{ MHz}$	C_{tot}	-	120	pF

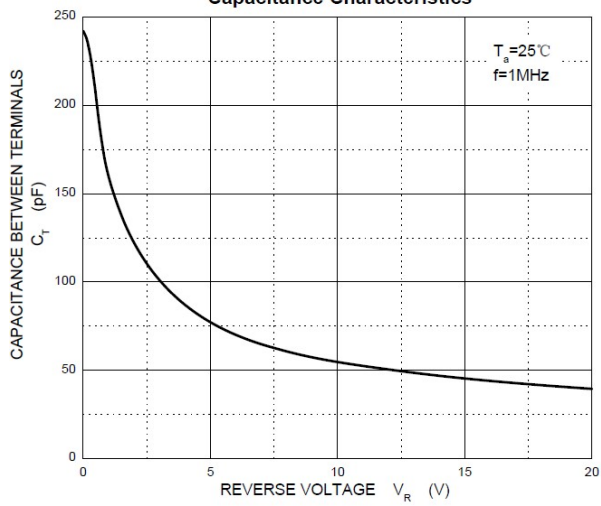
Forward Characteristics



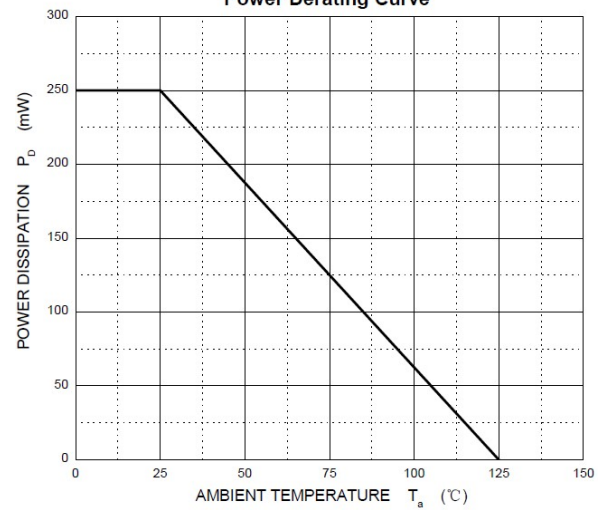
Reverse Characteristics



Capacitance Characteristics



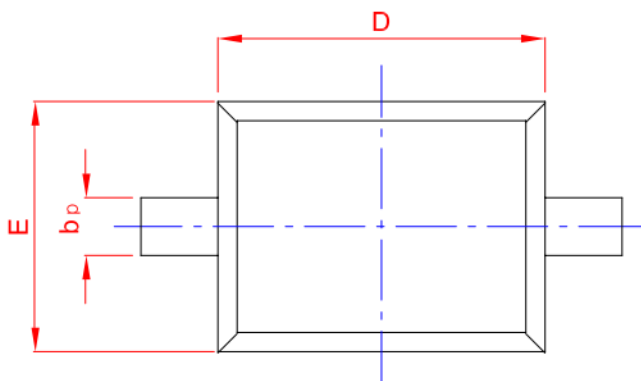
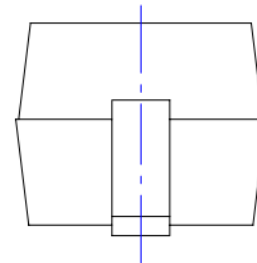
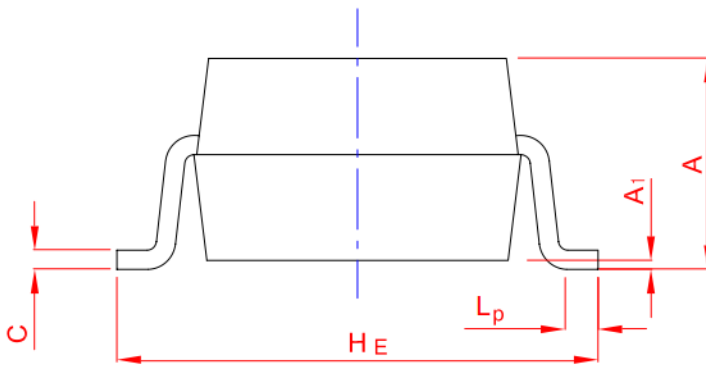
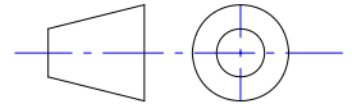
Power Derating Curve



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	bp	C	D	E	HE	A1	Lp
mm	1.20 0.80	0.40 0.25	0.18 0.08	1.80 1.60	1.40 1.15	2.80 2.30	0.10 0.00	0.50 0.10