

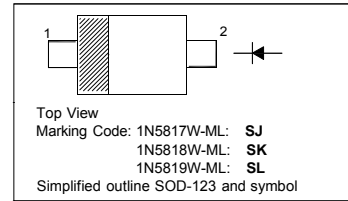
1N5817W-1N5819W-ML 1A Surface Mount Schottky Barrier Diode

Features

For use in low voltage, high frequency inverters
Free wheeling, and polarity protection applications.

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

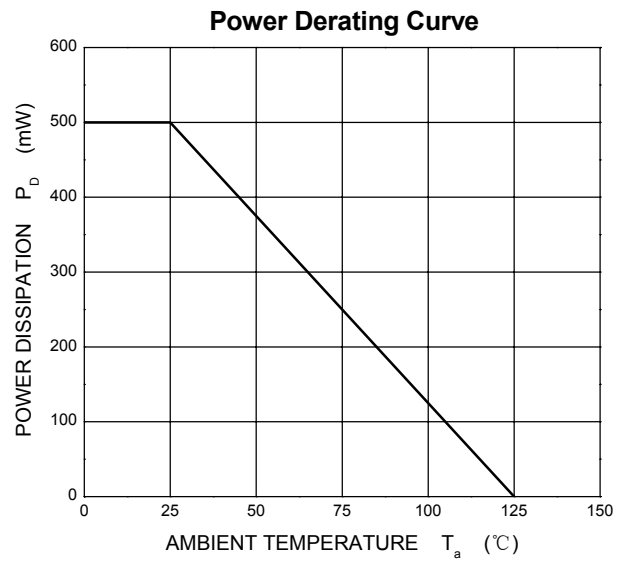
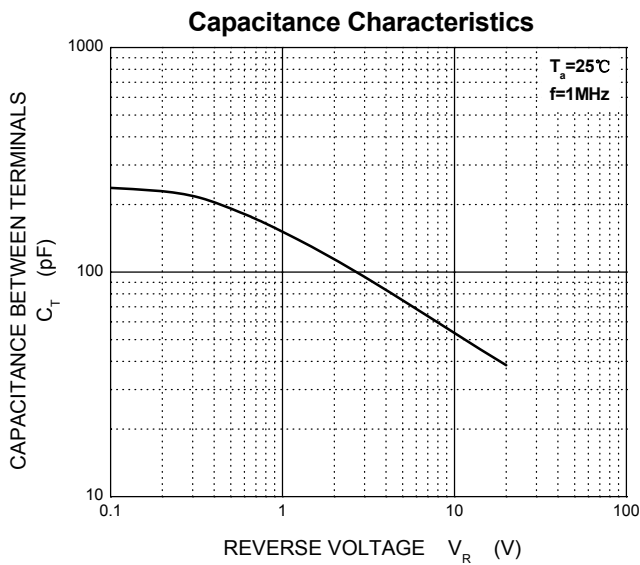
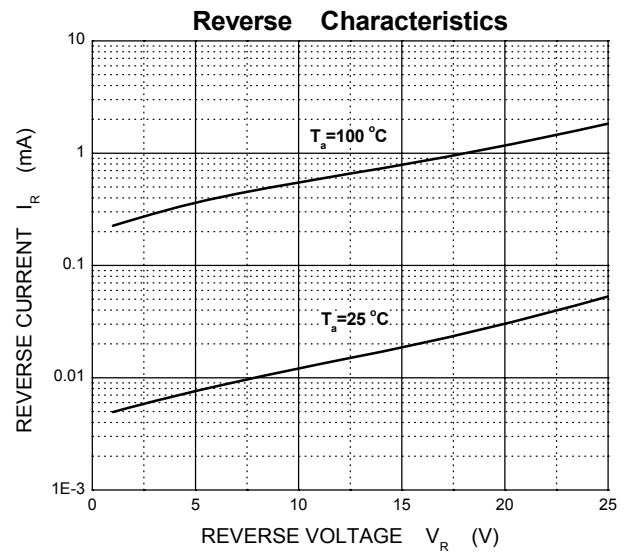
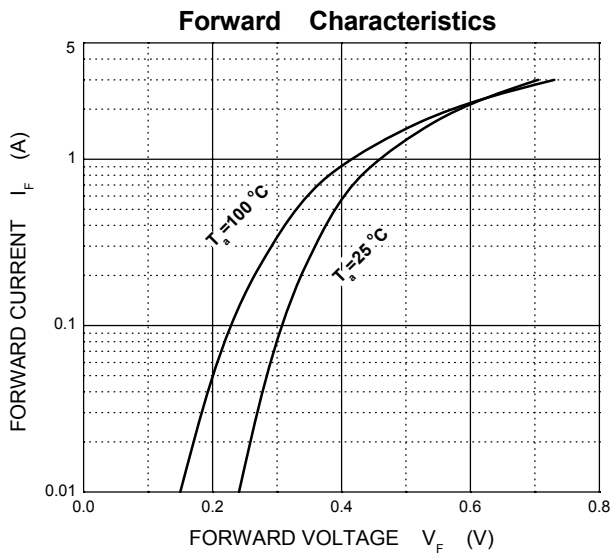


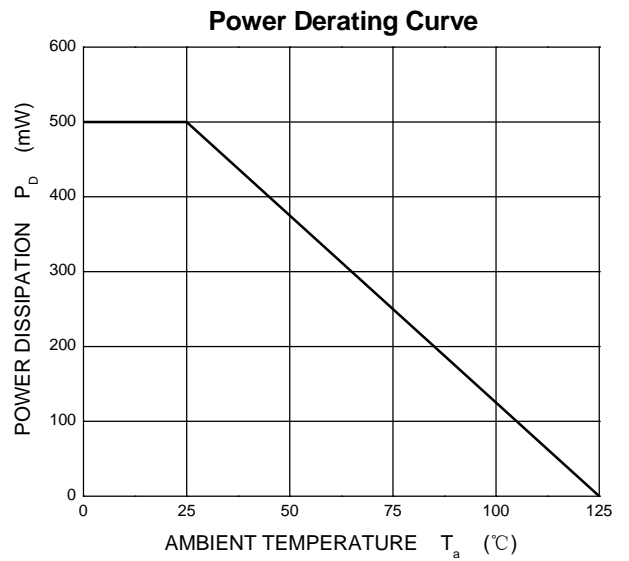
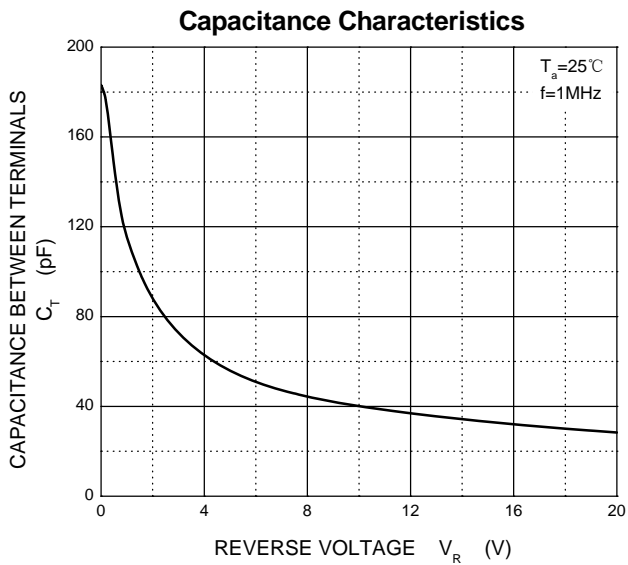
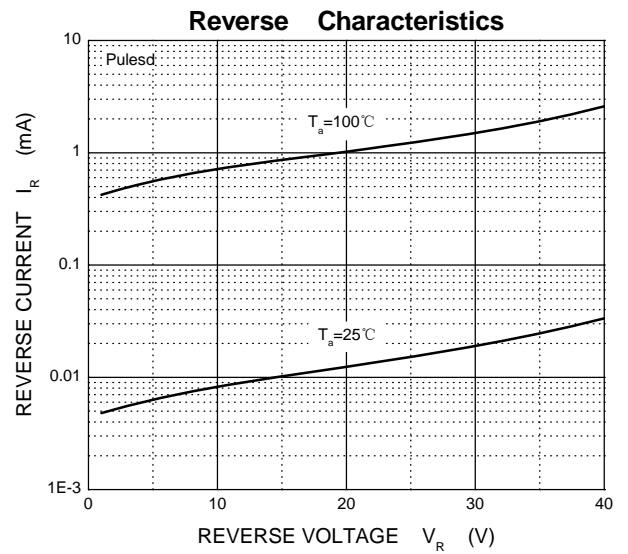
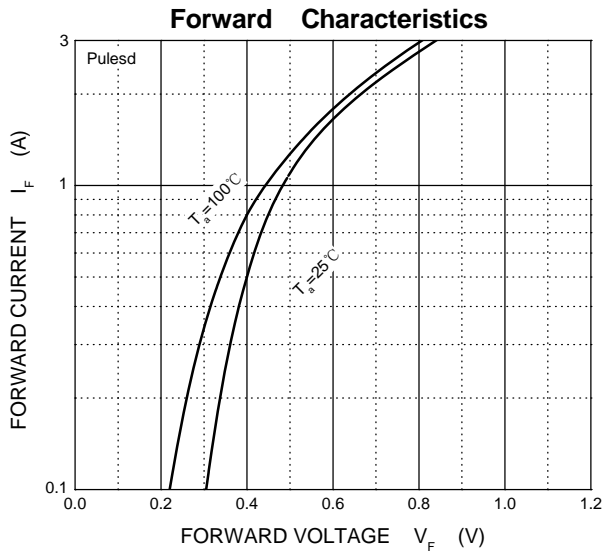
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	20	V
		30	
		40	
Average Forward Rectified Current	I _{F(AV)}	1	A
Non-Repetitive Peak Forward Surge Current (8.3 ms Single Half Sine-Wave)	I _{FSM}	25	A
Power Dissipation	P _{tot}	500	mW
Operating Temperature Range	T _j	125	°C
Storage Temperature Range	T _{stg}	- 55 to + 125	°C

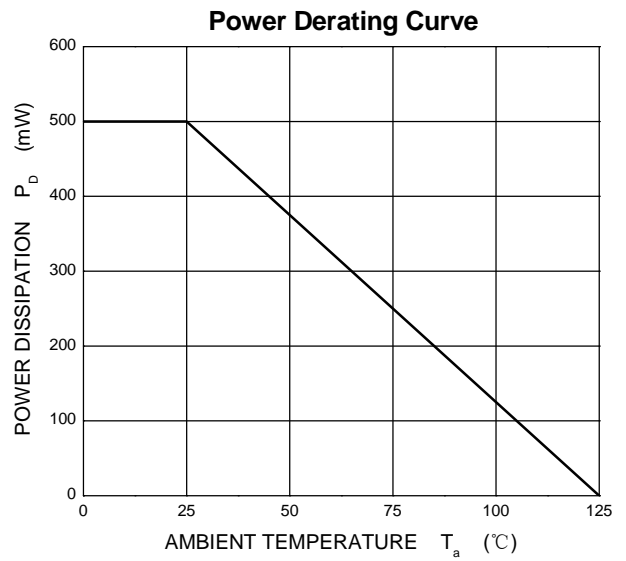
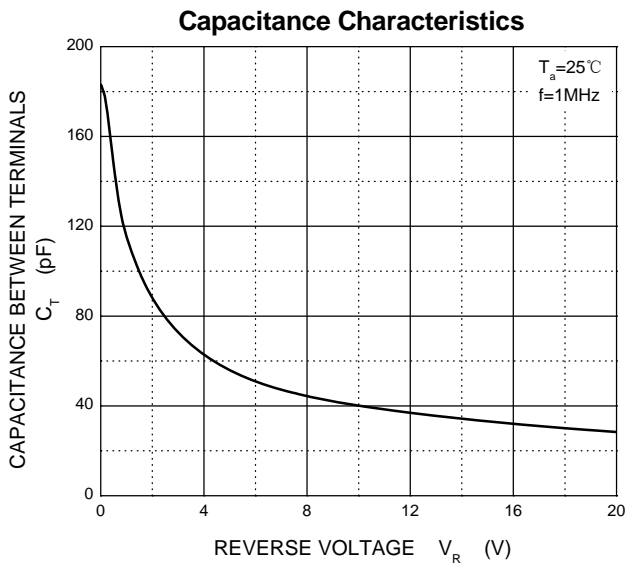
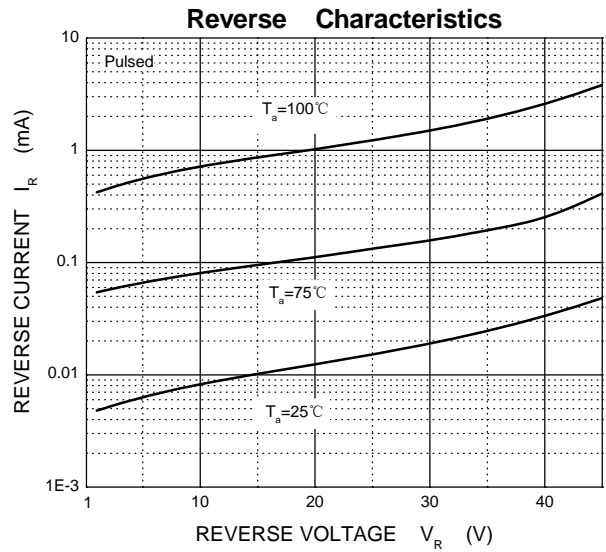
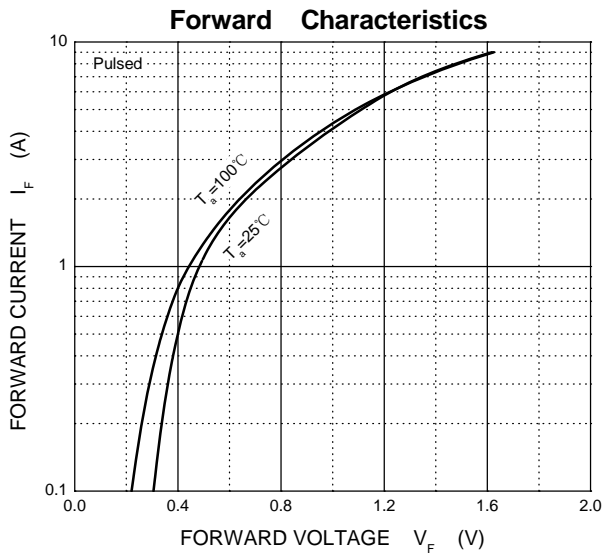
Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 1 mA	V _{(BR)R}	20	-	V
		30	-	
		40	-	
Reverse Current at V _R = 20 V	I _R	-	1	mA
at V _R = 30 V		-	1	
at V _R = 40 V		-	1	
at V _R = 4 V		-	0.05	
at V _R = 6 V		-	0.075	
Forward Voltage at I _F = 0.1 A	V _F	-	0.45	V
at I _F = 1 A		-	0.45	
		-	0.55	
		-	0.6	
at I _F = 3 A		-	0.75	
		-	0.875	
		-	0.9	
Total Capacitance at V _R = 4 V, f = 1 MHz	C _{tot}	-	120	pF





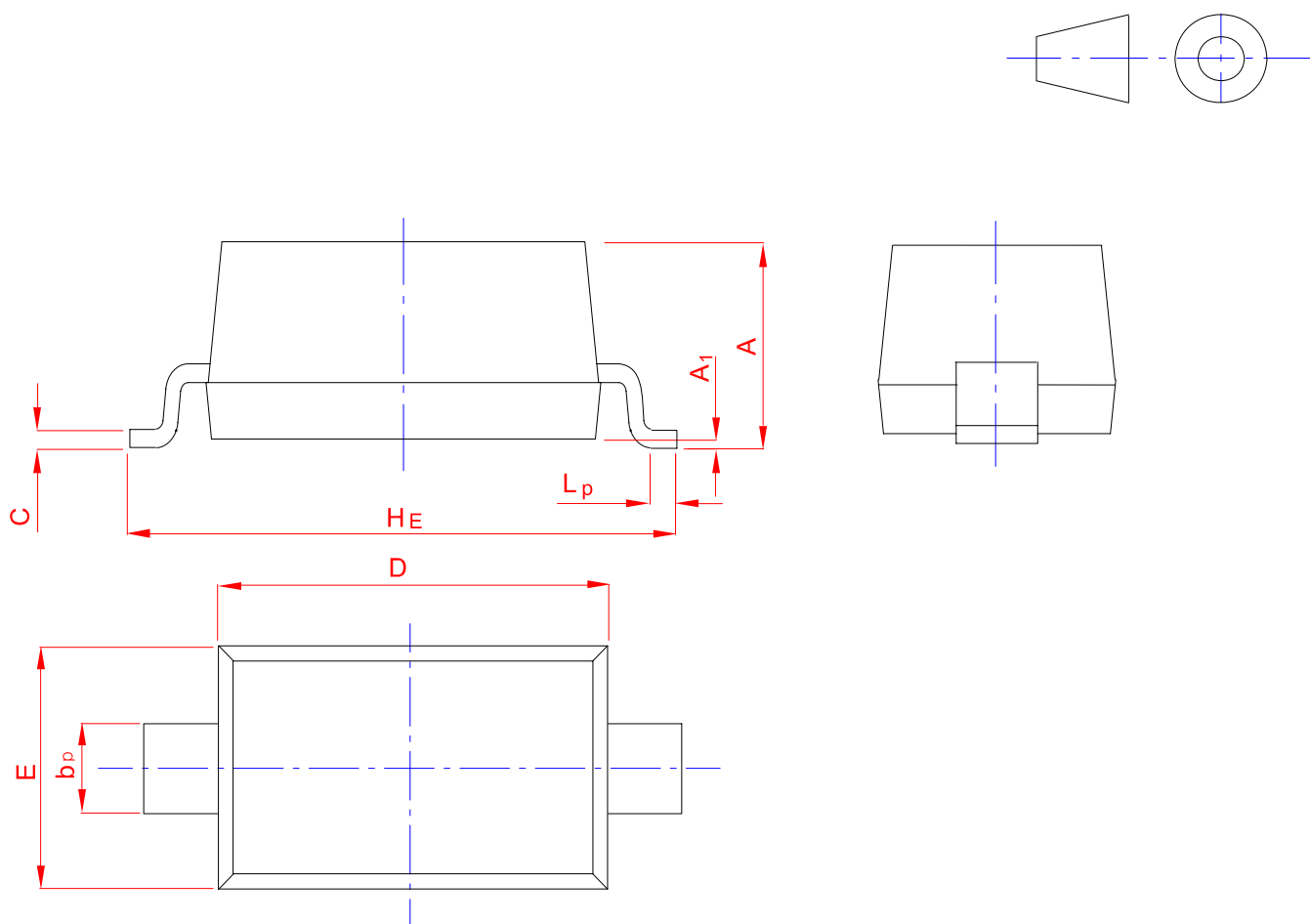
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



UNIT	A	bp	C	D	E	HE	A1	Lp
mm	1.20	0.60	0.135	2.75	1.65	3.85	0.10	0.50
	0.90	0.50	0.100	2.55	1.55	3.55	0.01	0.20

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