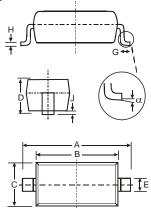


1A SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- High Current Capability and Low Forward Voltage Drop
- Low Power Loss, High Efficiency.
- High Surge Capability.
- For Use in Low Voltage, High Frequency Inverters.
 Free Wheeling, and Polarity Protection Application

DEVICE	MARKING		
1N5817W	SJ		
1N5818W	SK		
1N5819W	SL		



SOD-123					
Dim	Min	Max			
Α	3.55	3.85			
В	2.55	2.85			
С	1.40	1.70			
D		1.35			
Е	0.45	0.65			
	0.55 Typical				
G	0.25				
Н	0.11 Typical				
J		0.10			
α	0°	8°			
All Dimensions in mm					

Maximum Ratings @ T_A = 25°C unless otherwise specified

Parameter		Symbol	Value	Unit
	1N5817W		20	
Reverse Voltage	1N5818W	V_R	30	V
	1N5819W		40	
Average Forward Rectified Current		Io	1	А
Non-Repetitive Peak Forward Surge Current (8.3 ms Single Half Sine-Wave)		I _{FSM}	25	А
Power Dissipation		P _{tot}	450	mW
Operating and Storage Temperature	Range	T _j ,T _S	- 55 to + 125	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

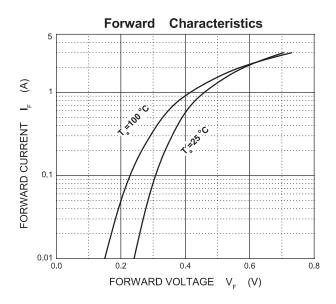
Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 1 mA	1N5817W 1N5818W 1N5819W	V_{BR}	20 30 40		V
Reverse Voltage Leakage Current at $V_R = 20 \text{ V}$ at $V_R = 30 \text{ V}$ at $V_R = 40 \text{ V}$ at $V_R = 4 \text{ V}$ at $V_R = 6 \text{ V}$	1N5817W 1N5818W 1N5819W 1N5819W 1N5819W	I _R	- - - -	1 1 1 0.05 0.075	mA
Forward Voltage at $I_F = 0.1 \text{ A}$ at $I_F = 1 \text{ A}$ at $I_F = 3 \text{ A}$	1N5819W 1N5817W 1N5818W 1N5819W 1N5817W 1N5818W 1N5819W	V _F	- - - - -	0.45 0.45 0.55 0.6 0.75 0.875 0.9	V
Diode Capacitance at V _R = 4 V, f = 1 MHz		C _D	-	120	pF

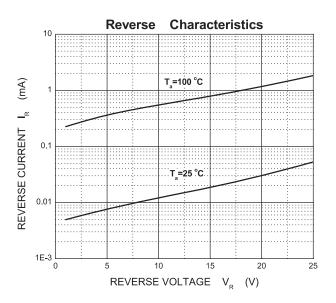


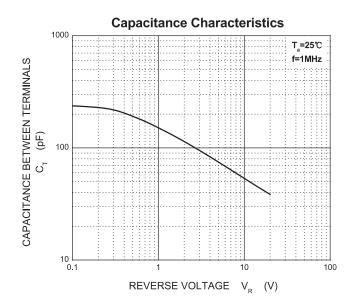
1A SURFACE MOUNT SCHOTTKY BARRIER DIODE

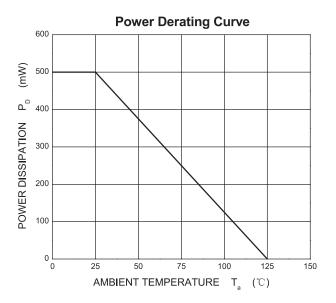
TYPICAL TRANSIENT CHARACTERISTICS

1N5817W









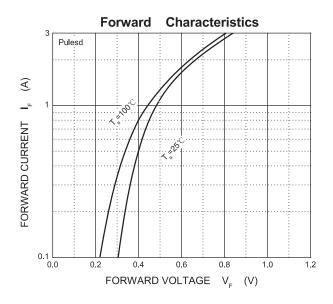
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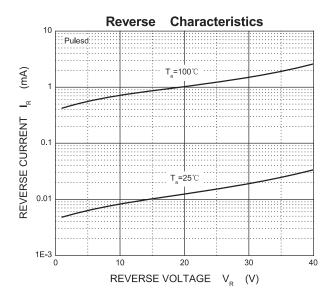


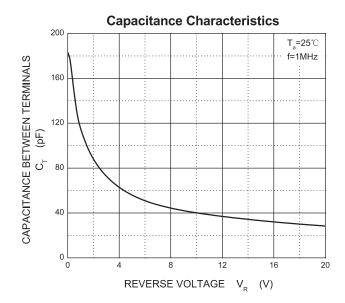
1A SURFACE MOUNT SCHOTTKY BARRIER DIODE

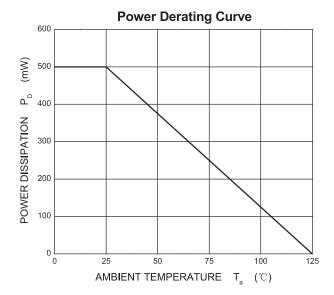
TYPICAL TRANSIENT CHARACTERISTICS

1N5818W







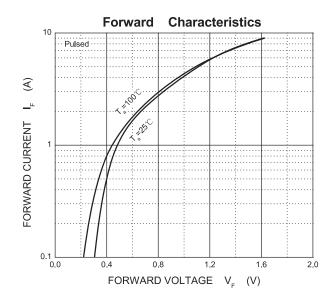


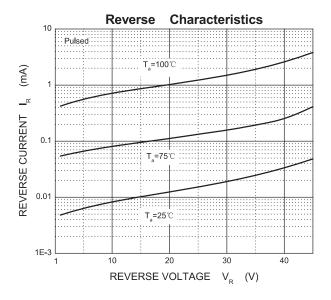


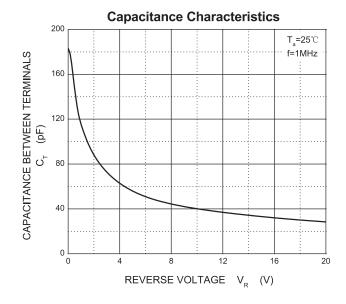
1A SURFACE MOUNT SCHOTTKY BARRIER DIODE

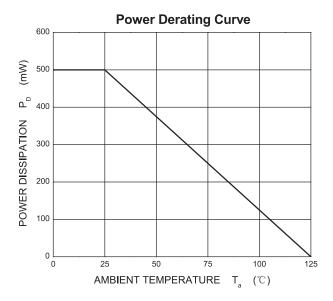
TYPICAL TRANSIENT CHARACTERISTICS

1N5819W









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1A SURFACE MOUNT SCHOTTKY BARRIER DIODE

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