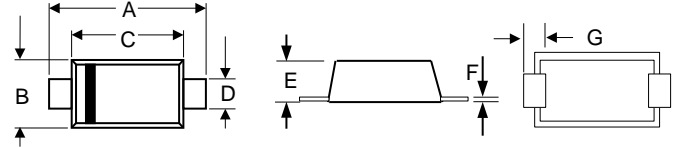


# 1N5817W THRU 1N5819W

## Surface Mount Schottky Barrier Rectifiers

### Features

- \* Reverse voltage - 20 to 40 V
- \* Forward current - 1 A



RoHS  
COMPLIANT



DIM	SOD-123F			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.138	0.154	3.5	3.9
B	0.067	0.075	1.7	1.9
C	0.102	0.114	2.6	2.9
D	0.031	0.043	0.8	1.1
E	0.035	0.043	0.88	1.08
F	0.004	0.008	0.1	0.2
G	0.028	0.035	0.7	0.9

### Maximum Ratings and Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbols	1N5817W	1N5818W	1N5819W	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	1			A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load(JEDEC method)	I <sub>FSM</sub>	25			A
Maximum Instantaneous Forward Voltage	at I <sub>F</sub> = 1 A	0.45	0.55	0.6	V
	at I <sub>F</sub> = 3 A	0.75	0.875	0.9	
Maximum Instantaneous Reverse Current at Rated DC Blocking Voltage <sup>1)</sup>	T <sub>A</sub> = 25°C	0.5			mA
	T <sub>A</sub> = 100°C	10			
Typical Junction Capacitance <sup>2)</sup>	C <sub>J</sub>	110			pF
Typical Thermal Resistance, Junction to Ambient <sup>3)</sup>	R <sub>θJA</sub>	75			°C/W
Operating Junction Temperature Range	T <sub>j</sub>	- 55 to + 125			°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150			°C

Note: 1) Pulse test: 300 μs pulse width, 1% duty cycle

2) Measured at 1 MHz and reverse voltage of 4 V

3) Thermal resistance junction to ambient 0.24" X 0.24"(6 X 6 mm) copper pads to each terminals

### Ratings and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

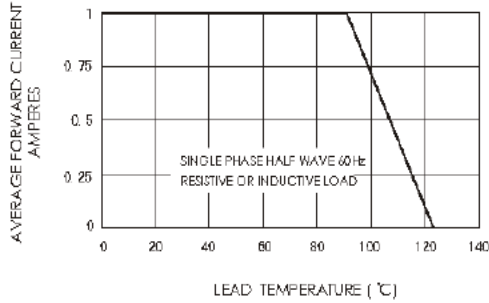


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

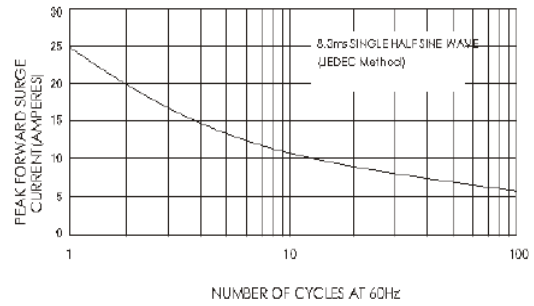


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

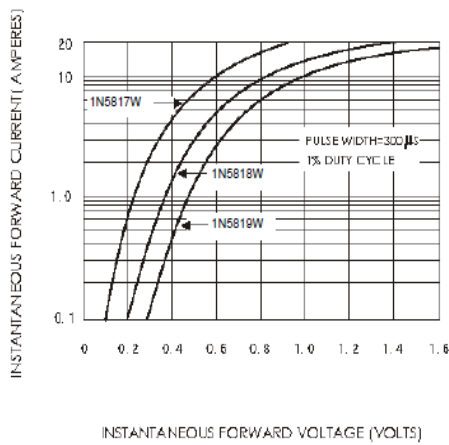


FIG.4-TYPICAL REVERSE CHARACTERISTICS

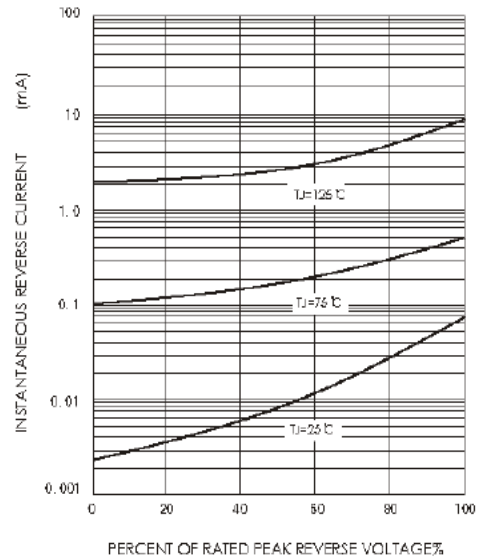
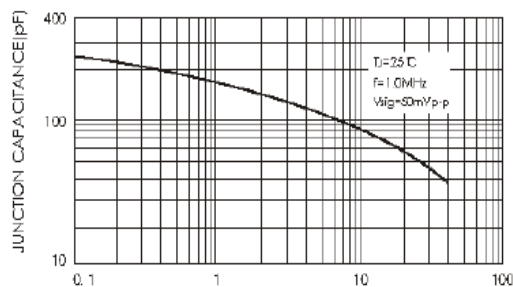


FIG.5-TYPICAL JUNCTION CAPACITANCE





# 1N5817W THRU 1N5819W

## Surface Mount Schottky Barrier Rectifiers

### Ordering Information

Part No.	Package	Packing Code	Packing
1N5817W THRU 1N5819W	SOD-123F	R30	3000pcs/Reel

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