

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N5817W THRU 1N5819W

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 40 Volts CURRENT - 1.0 Ampere

FEATURES

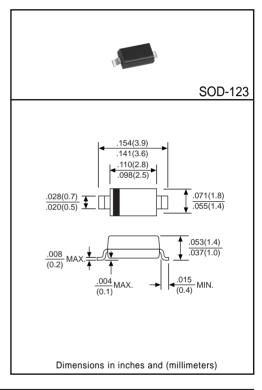
- * For general purpose applications
- * Low turn-on voltage
- * Fast switching time
- * Ideal for surface mounted applications

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per
 - MIL-STD-750, Method 2026 guaranteed
- * Mounting position: Any
- * Weight: 0.008 grams Approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



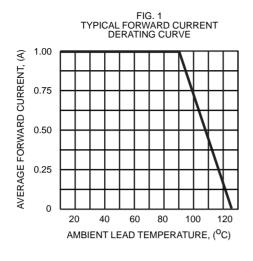
	SYMBOL	1N5817W	1N5818W	1N5819W	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	Volts
Maximum RMS Voltage	VRMS	14	21	28	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	Volts
Maximum Average Forward Rectified Current at TA=90°C	lo	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30			Amps
Maximum Instantaneous Forward Voltage at IF=1.0A	VF	0.45	0.55	0.60	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	lR	1.0			mAmps
Typical Thermal Resistance (Note1)	RθJA	80			°C/W
Typical Junction Capacitance (Note 2)	Cı	120			pF
Storage Operating Temperature Range	TJ, TSTG	-55 to +150			٥C

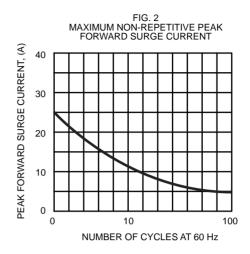
Note: 1. Mounted on FR4 PC Board.

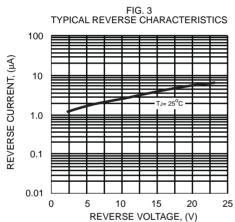
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

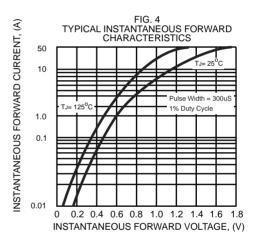
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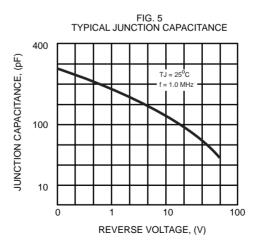
RATING AND CHARACTERISTIC CURVES (1N5817W THRU 1N5819W)











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