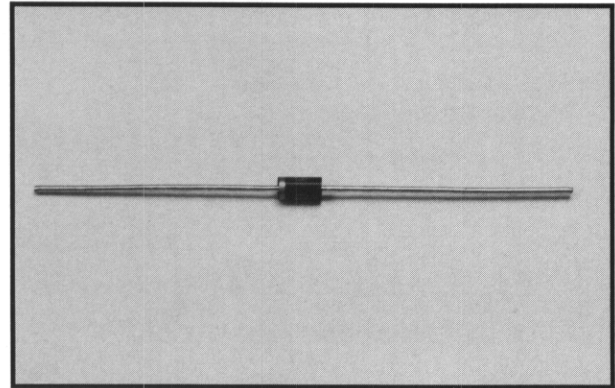


# 1N5817 Thru 1N5819



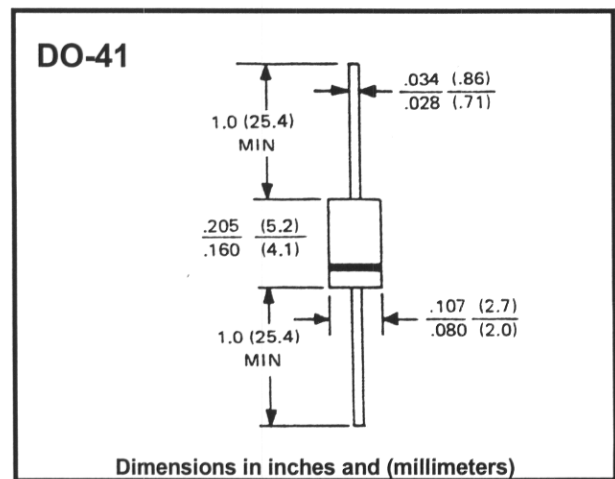
## 1 AMP SCHOTTKY BARRIER RECTIFIER



### FEATURES

- Metal semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chloroethene and similar solvents
- Plastic material UL recognized 94V-O
- For use in low voltage, high frequency inverters, free wheeling and polarity protection applications

### Outline Drawing



### Mechanical Data

- Case: JEDEC DO-41 molded plastic
- Leads solderable per MIL-STD-202 method 208
- Polarity: color band denotes cathode
- Weight: 0.0211 ounces, 0.34 grams

### Maximum Ratings & Characteristics

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

		1N5817	1N5818	1N5819	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	V
Maximum RMS Input Voltage	V <sub>RMS</sub>	14	21	28	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	V
Maximum Average Forward Output Current	I <sub>(AV)</sub>	1.0			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 Forward Voltage Drop	V <sub>F</sub>	At 1.0A DC 0.450 At 3.0A DC 0.750	0.550 0.875	0.600 0.900	V
Maximum Average DC Reverse Current	I <sub>R</sub>	@ T <sub>A</sub> = 25°C 1 @ T <sub>A</sub> = 100°C 10			mA
Typical Thermal Resistance*(See Note)	R <sub>(THJA)</sub>	80			°C/W
Typical Junction Capacitance**(See Note)	C <sub>J</sub>	110			pF
Operating Temperature Range	T <sub>J</sub>	-65 to +125			°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +125			°C

Note: \* Lead temperature reference is cathode lead .375" (9.5mm) from case

\*\*Measured at 1 MHz and applied reverse voltage of 4.0V DC