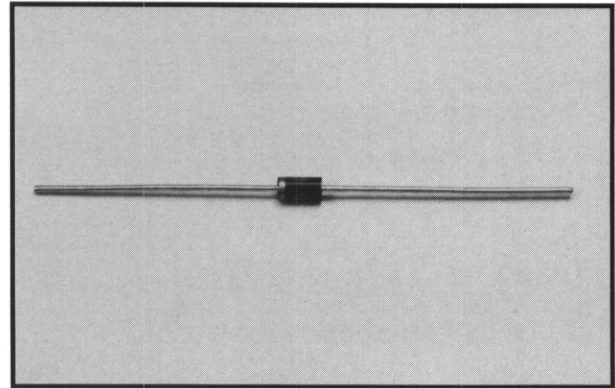


1N5817 Thru 1N5819



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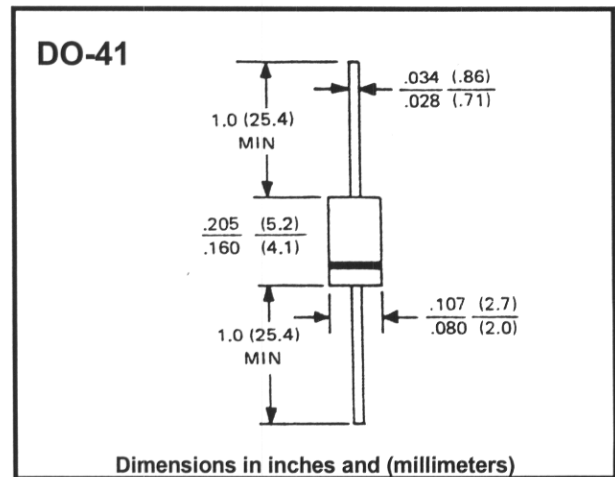
1 AMP SCHOTTKY BARRIER RECTIFIER



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 _{RRM}	20	30	40	V	
Maximum RMS Input Voltage	V _{RMS}	14	21	28	V	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V	
Maximum Average Forward Output Current	I _(AV)	1.0			A	
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC Method)	I _{FSM}	25			A	
Maximum Forward Voltage Drop	V _F	At 1.0A DC At 3.0A DC	0.450 0.750	0.550 0.875	0.600 0.900	V
Maximum Average DC Reverse Current	I _R	@ T _A = 25°C @ T _A = 100°C	1 10		mA	
Typical Thermal Resistance*(See Note)	R _(THJA)	80			°C/W	
Typical Junction Capacitance**(See Note)	C _J	110			pF	
Operating Temperature Range	T _J	-65 to +125			°C	
Storage Temperature Range	T _{STG}	-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