



1N5820 Thru 1N5822

3 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, chlorothene and similar solvents
- Plastic material UL recognized 94V-O
- For use in low voltage, high frequency inverters, free wheeling and polarity protection applications

Mechanical Data

- Case: JEDEC DO-201AD molded plastic
- Leads solderable per MIL-STD-202 method 208
- Polarity: color band denotes cathode
- Weight: 0.04 ounces, 1.12 grams

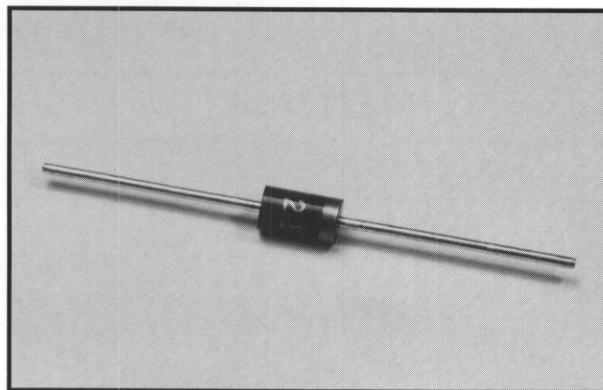
Maximum Ratings & Characteristics

- 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%

		1N5820	1N5821	1N5822	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 @ $T_L = 95^\circ\text{C}$	$I_{(AV)}$	3.0			A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC Method) @ $T_L = 75^\circ\text{C}$	I_{FSM}	80			A
Maximum Forward Voltage Drop At 3.0A DC At 9.4A DC	V_F	0.475 0.850	0.500 0.900	0.525 0.950	V
Maximum Average DC Reverse Current @ $T_A = 25^\circ\text{C}$ @ $T_A = 100^\circ\text{C}$	I_R	2 20			mA
Typical Thermal Resistance*(See Note)	$R_{(THJA)}$	20			$^\circ\text{C/W}$
Typical Junction Capacitance**(See Note)	C_J	250			pF
Operating Temperature Range	T_J	-65 to +125			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150			$^\circ\text{C}$

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

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



Outline Drawing

DO-201AD

