

DATA SHEET

1N5822

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE	40 Volts	CURRENT	3.0 Ampere
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DO-201AD	Unit: inch(mm)
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FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage,high frequency inverters ,free wheeling ,and polarity protection applications .
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

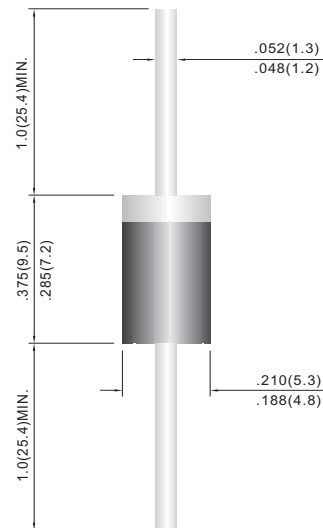
Case: DO-201AD Molded plastic

Terminals: Axial leads, solderable per MIL-STD-202G,Method 208

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.04 ounces, 1.1 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER	SYMBOL	1N5822	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_a = 95^\circ\text{C}$	I_{AV}	3	A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	80	A
Maximum Forward Voltage at 3.0A Maximum Forward Voltage at 9.4A	V_F	0.525 0.950	V
Maximum DC Reverse Current $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R	0.5 20	mA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	40 10	$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-50 TO +125	$^\circ\text{C}$

RATING AND CHARACTERISTIC CURVES

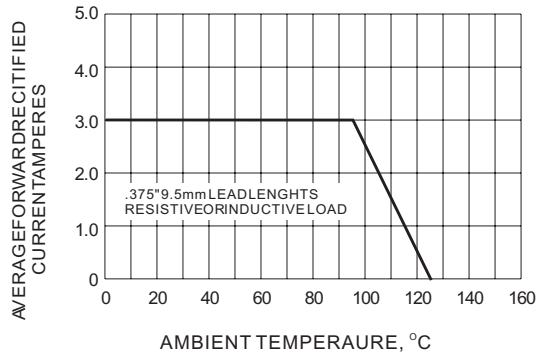


Fig.1- FORWARD CURRENT DERATING CURVE

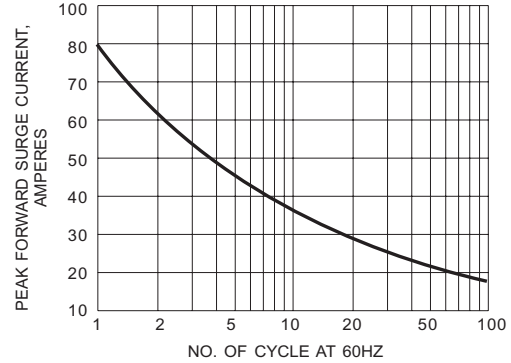


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

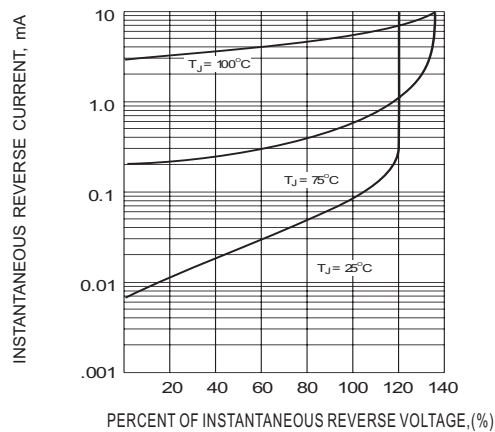


Fig.3- TYPICAL REVERSE CHARACTERISTICS

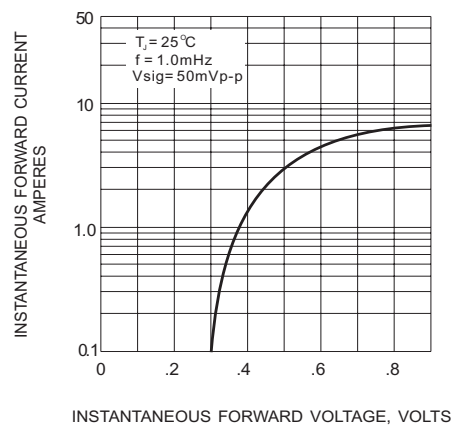


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC