



1N5820H~1N5822H

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 40 Volts **CURRENT** 3.0 Ampere

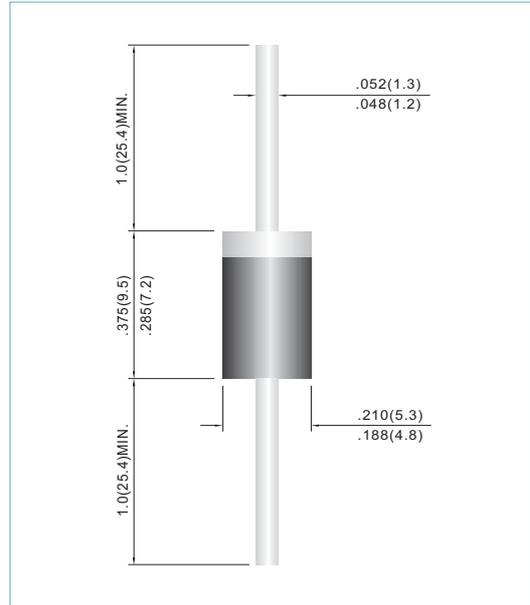
DO-201AD Unit: inch(mm)

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 : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

- Case: DO-201AD Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750,Method 2026
- 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	1N5820H	1N5821H	1N5822H	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_A=95^{\circ}C$	$I_{F(AV)}$	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	0.475 0.850	0.500 0.900	0.525 0.950	V
Maximum DC Reverse Current $T_J=25^{\circ}C$ at Rated DC Blocking Voltage $T_J=100^{\circ}C$	I_R	0.5 20			mA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	40 10			$^{\circ}C / W$
Operating Junction Temperature Range	T_J	-50 TO +150			$^{\circ}C$
Storage Temperature Range	T_{STG}	-50 TO +150			$^{\circ}C$



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RATING AND CHARACTERISTIC CURVES

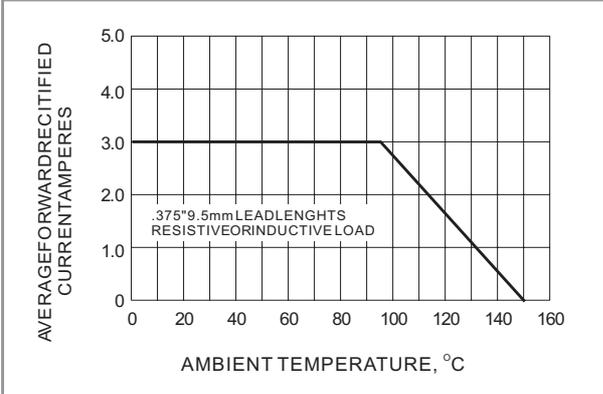


Fig.1- FORWARD CURRENT DERATING CURVE

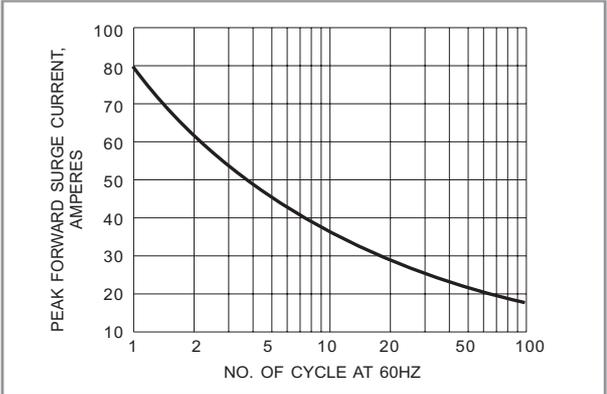


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

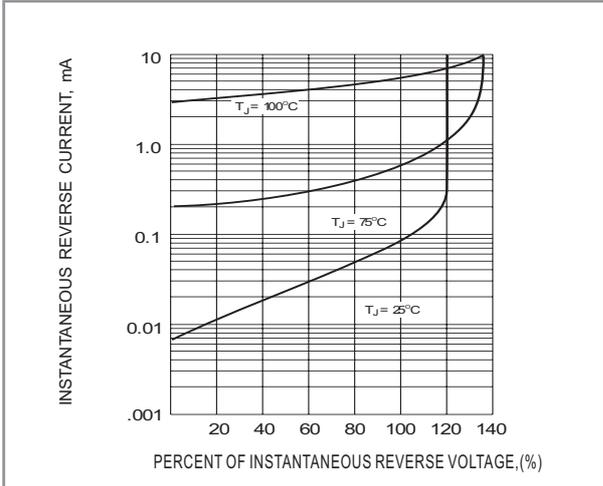


Fig.3- TYPICAL REVERSE CHARACTERISTICS

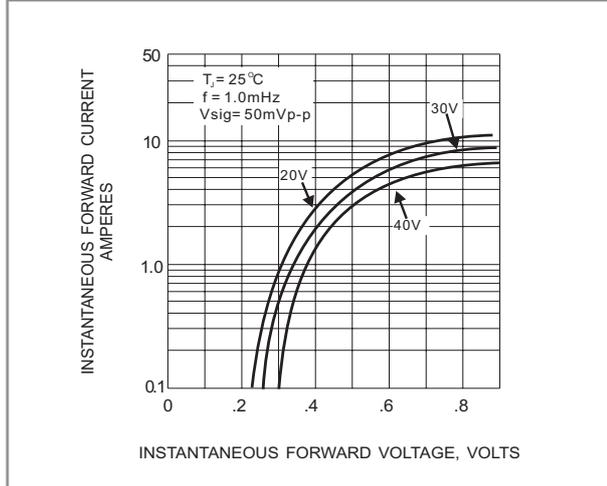


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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