

1N5820~1N5822

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 40 Volt **CURRENT** 3 Amper

DO-201AD

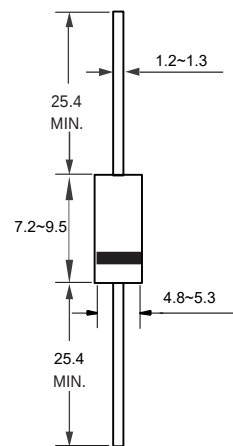
Unit:mm

FEATURES

- Low Forward Voltage Drop and High Current Capability
- High Surge Current Capability
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	1N5820	1N5821	1N5822	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 (See Figure 1)	$I_{F(AV)}$	3			A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80			A
Maximum Forward Voltage at 2.0 A	V_F	0.475	0.500	0.525	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.5			mA
Thermal Resistance (Note2)	$R_{\theta JA}$	28			°C / W
Typical Junction Capacitance (Note1)	C_J	200			pF
Operating Junction Temperature Range	T_J	-55 to +150			°C
Storage Temperature Range	T_{STG}	-55 to +150			°C

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volt
2. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

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RATING AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

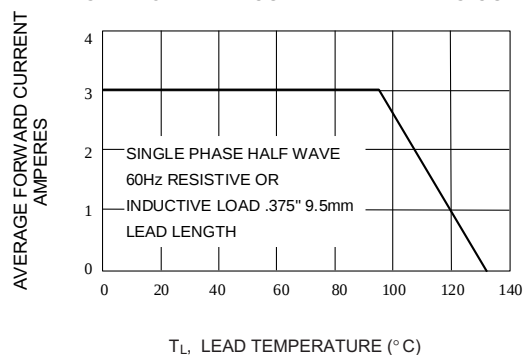


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

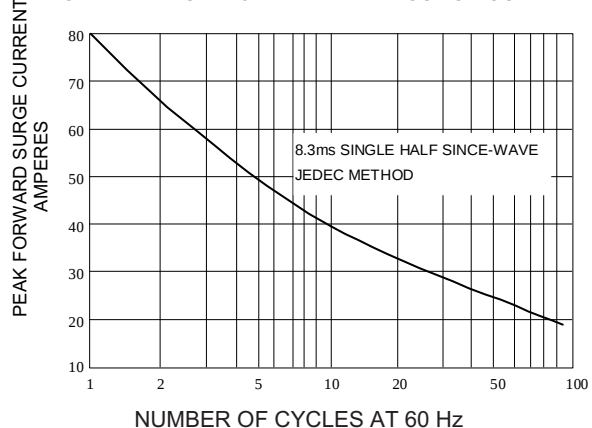


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

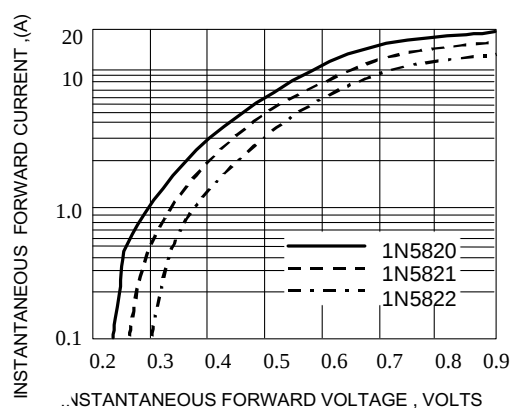


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

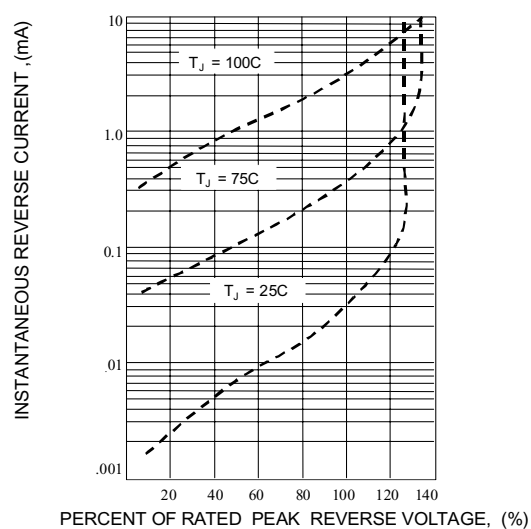
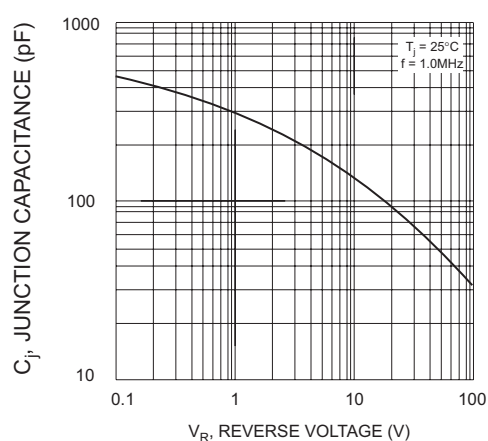


Fig. 5 Typical Junction Capacitance



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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
1N5820~1N5822	DO-201AD	13 Inch	1200