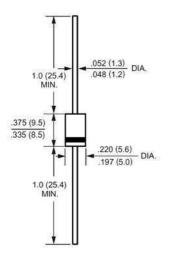


1N5820 THRU 1N5822 SCHOTTKY BARRIERRECTIFIER

REVERSE VOLTAGE: 20 to 40VOLTS FORWARD CURRENT: 3.0 AMPERE

DO-201AD



Dimensions in inches and (millimeters)

FEATURES

- · High current capability
- · High surge current capability
- · Low forward voltage drop
- · Exceeds environmental standards of MIL-S-19500/228
- · For use in low voltage, high frequency inverters free wheeling, and porlarlity protection applications

MECHANICAL DATA

Case: Molded plastic, DO-201AD Epoxy: UL 94V-O rate flame retardant

Lead: Axial leads, solderable perMIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.04ounce, 1.1gram

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbol s	1N5820	1N5821	1N5822	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length	I(AV)	3.0			Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	80			Amp
Maximum Forward Voltage at 3.0A DC and 25 $^{\circ}\mathrm{C}$	V _F	0.475	0.500	0.525	Volts
Maximum Reverse Current at T _A =25℃ at Rated DC Blocking Voltage T _A =100℃	IR	0.5 30			mAmp
Typical Junction Capacitance (Note 1)	C _J	250			pF
Typical Thermal Resistance (Note 2)	Reja	40			°C/W
Operating Junction Temperature Range	TJ	-55 to +125			°C
Storage Temperature Range	Tstg	-55 to +150			°C

NOTES:

- 1 Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

PECLERS ®

RATINGS AND CHARACTERISTICCURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

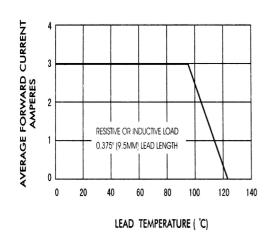


FIG.2-TYPICAL FORWARD

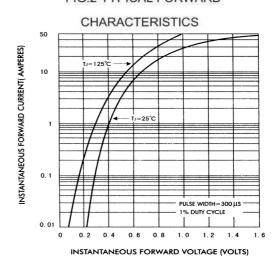


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

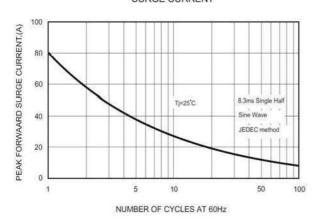


FIG.5 - TYPICAL REVERSE

