

1N5820 THRU 1N5822

SCHOTTKY BARRIER RECTIFIER

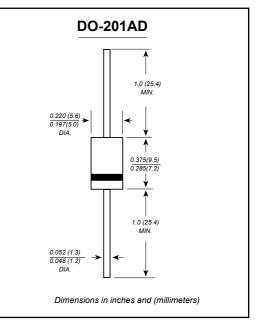
Reverse Voltage - 20 to 40 Volts Forward Current - 3.0 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guardring for overvoltage protection
- Low power loss, high erriciency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters,
- free wheeling, and polarity protection applications
 High temperature soldering guaranteed:
- 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.04 ounce, 1.10 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for current capacitive load derate by 20%.

Characteristic	SYMBOLS	1N5820	1N5821	1N5822	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	V
Maximum RMS voltage	Vrms	14	21	28	V
Maximum DC blocking voltage	VDC	20	30	40	V
Maximum average forward rectified current 0.375″(9.5mm) lead length at T∟=95℃	l(AV)		3.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	80.0			A
Maximum instantaneous forward voltage at 3.0A	Vf	0.475	0.500	0.525	V
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	2.0 20.0			mA
Typical junction capacitance (NOTE 1)	CJ	300.0			pF
Typical thermal resistance (NOTE 2)	RθJA	40.0			°C/W
Operating junction and storage temperature range	Тј,Тѕтб		-65 to +125		°C

Compliant

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted



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RATINGS AND CHARACTERISTIC CURVES

