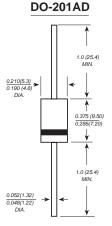
1N5820 THRU 1N5822

SCHOTTKY BARRIER RECTIFIER

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



Dimensions in inches and (millimeters)

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%.

	SYMBOLS	1N5820	1N5821	1N5822	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	VOLTS
Maximum RMS voltage	VRMS	14	21	28	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at TL=95℃	l(AV)	3.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	80.0			Amps
Maximum instantaneous forward voltage at 3.0A	VF	0.475	0.500	0.525	Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	2.0 40.0			mA
Typical junction capacitance (NOTE 1)	Cı		300.0		
Typical thermal resistance (NOTE 2)	RqJA	40.0			°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +125			°C

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

RATINGS AND CHARACTERISTIC CURVES 1N5820 THRU 1N5822

