



1N5820 THRU 1N5822

SCHOTTKY BARRIER RECTIFIER

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

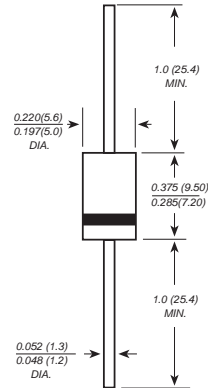
FEATURES

Plastic package has Underwriters Laboratory Flammability Classification 94V-0
 Metal silicon junction, majority carrier conduction
 Guardring for overvoltage protection
 Low power loss, high efficiency
 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:
 260°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

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

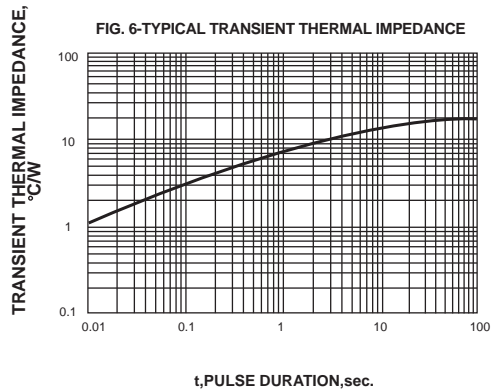
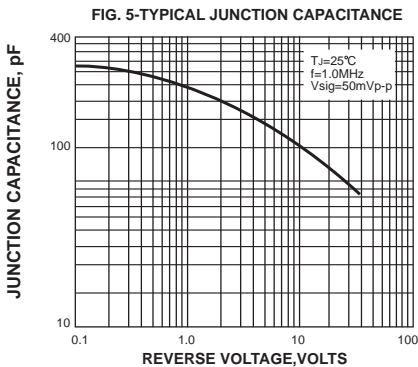
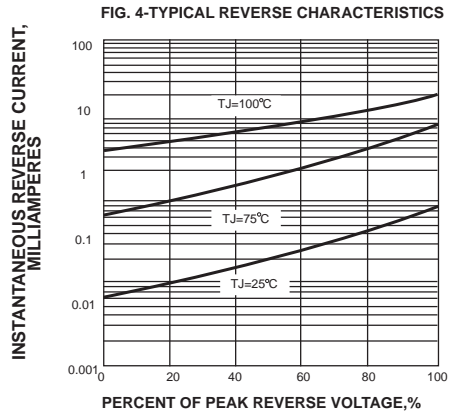
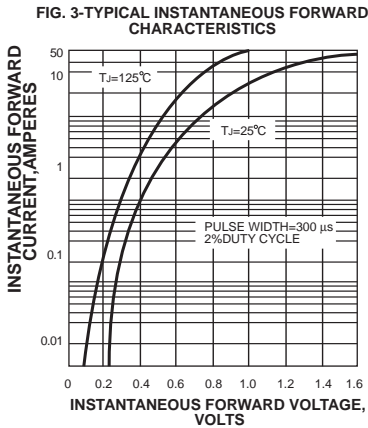
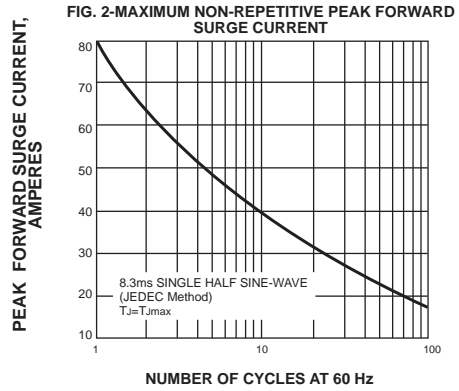
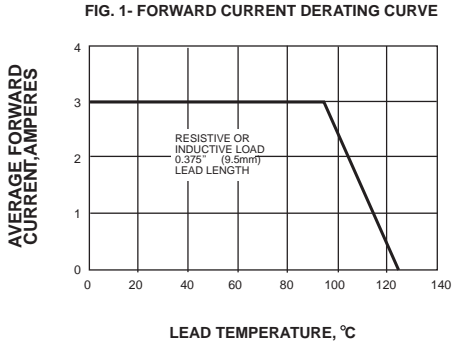
Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase half-wave 60Hz, resistive or inductive load, for current capacitive load derate by 20%.

| | SYMBOLS | 1N5820 | 1N5821 | 1N5822 | UNITS |
|---|-----------------|-------------|--------|--------|--------------------|
| Maximum repetitive peak reverse voltage | 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 rectified current 0.375" (9.5mm) lead length at $T_L=95^\circ\text{C}$ | $I_{(AV)}$ | 3.0 | | | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 80.0 | | | A |
| Maximum instantaneous forward voltage at 3.0A | V_F | 0.475 | 0.500 | 0.525 | V |
| Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$ | I_R | 0.5 40.0 | | | mA |
| Typical junction capacitance (NOTE 1) | C_J | 300.0 | | | pF |
| Typical thermal resistance (NOTE 2) | $R_{\theta JA}$ | 40.0 | | | $^\circ\text{C/W}$ |
| Operating junction and storage temperature range | T_J, T_{STG} | -55 to +125 | | | $^\circ\text{C}$ |

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



单击下面可查看定价，库存，交付和生命周期等信息

[>>ZG\(中鑫半导体\)](#)