

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 40 Volts FORWARD CURRENT - 3.0 Amperes

FEATURES

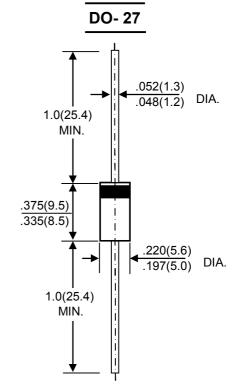
- Metal-Semiconductor junction with gard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low vlotage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

Case: JEDEC DO-27 molded plasticPolarity: Color band denotes cathode

●Weight: 0.04 ounces , 1.1 grams

Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	1N5820	1N5821	1N5822	UNIT
Maximum Recurrent 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 Lengths @TL=95 ℃	I(AV)	3.0			А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	80			А
Maximum Forward Voltage at 3.0A DC	VF	0.45	0.55	0.60	V
Maximum Forward Voltage at 9.4A DC	VF	0.850	0.900	0.950	V
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=100°C	lR	1.0 20			mA
Typical Junction Capacitance (Note1)	CJ	250			pF
Typical Thermal Resistance (Note2)	Rejl	20			°C/W
Operating Temperature Range	TJ	-55 to +125			$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to +150			$^{\circ}$

NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

2. Thermal resistance junction to lead,



