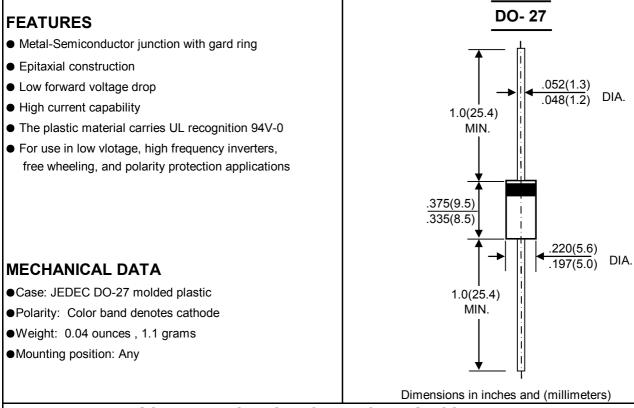


## 1N5820 thru 1N5822

### SCHOTTKY BARRIER RECTIFIERS

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



#### 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 °C	l(AV)		3.0		A
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	IR	1.0 20			mA
Typical Junction Capacitance (Note1)	CJ	250			pF
Typical Thermal Resistance (Note2)	Rej∟	20			°C/W
Operating Temperature Range	TJ	-55 to +125			°C
Storage Temperature Range	Tstg	-55 to +150			°C

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

2. Thermal resistance junction to lead,

# RATING AND CHARACTERTIC CURVES 1N5820 thru 1N5822

