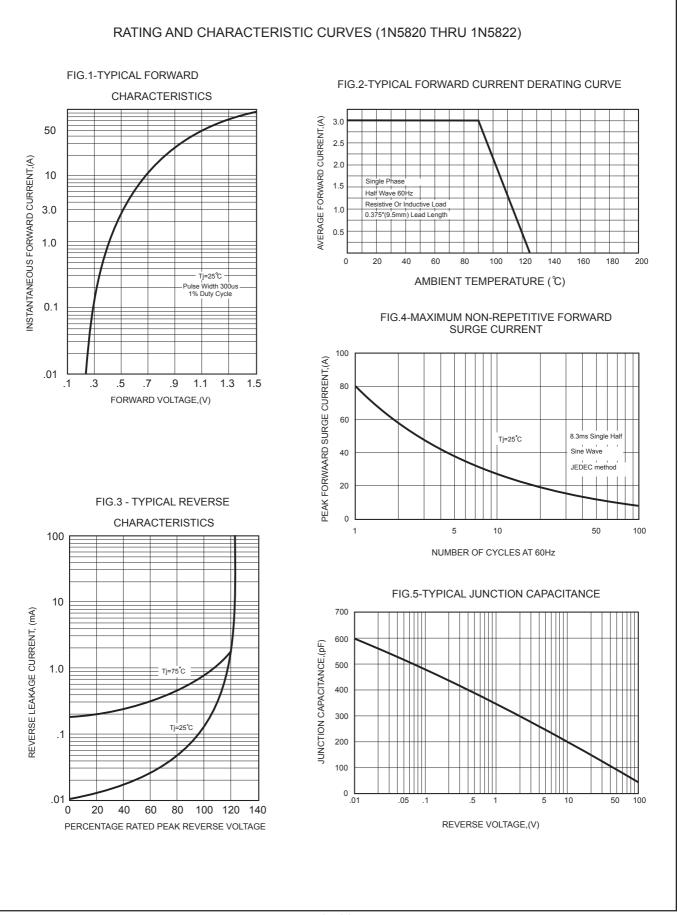
## **1N5820 THRU 1N5822 3.0 AMP SCHOTTKY BARRIER RECTIFIERS VOLTAGE RANGE** 20 to 40 Volts CURRENT **FEATURES** 3.0 Ampere \* Low forward voltage drop \* High current capability DO-27 \* High reliability .220(5.6) \* High surge current capability 197(5.0) \* Epitaxial construction DIÀ 1.0(25.4) MIN. **MECHANICAL DATA** \* Case: Molded plastic V \* Epoxy: UL 94V-0 rate flame retardant .375(9.5) \* Lead: Axial leads, solderable per MIL-STD-202, .285(7.2) method 208 guranteed \* Polarity: Color band denotes cathode end \* Mounting position: Any 1.0(25.4) \* Weight: 1.10 grams .052(1.3) MÌN. \*Both normal and Pb free product are available: \*Normal:80~95% Sn,5~20% Pb .048(1.2) DIA \*Pb free:99 Sn above can meet Rohs enviroment substance ¥ directive reques Dimensions in inches and (millimeters) MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating 25°C ambient temperature unless otherwies specified.

Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	1N5820	1N5821	1N5822	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	V
Maximum RMS Voltage	14	21	28	V
Maximum DC Blocking Voltage	20	30	40	V
Maximum Average Forward Rectified Current				
.375"(9.5mm) Lead Length at Ta=90°C	3.0			А
Peak Forward Surge Current, 8.3 ms single half sine-wave				
superimposed on rated load (JEDEC method)	80			А
Maximum Instantaneous Forward Voltage at 3.0A	.475	.500	.525	V
Maximum DC Reverse Current Ta=25°C		0.5		mA
at Rated DC Blocking Voltage Ta=100°C	50			mA
Typical Junction Capacitance (Note1)	250			pF
Typical Thermal Resistance R0JA (Note 2)	20		°C/W	
Operating Temperature Range TJ	-65-+125			°C
Storage Temperature Range Tstg	-65-+150			°C

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

2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.



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