1N5820 THRU **1N5822 3.0 AMP SCHOTTKY BARRIER RECTIFIERS VOLTAGE RANGE** 20 to 40 Volts CURRENT 3.0 Ampere **FEATURES** * Low forward voltage drop DO-27 * High current capability .220(5.6) * High reliability .197(5.0) * High surge current capability DIÀ 1.0(25.4) * Epitaxial construction Μ̈́ΙΝ. **MECHANICAL DATA** V * Case: Molded plastic .375(9.5) * Epoxy: UL 94V-0 rate flame retardant .285(7.2) * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed * Polarity: Color band denotes cathode end * Mounting position: Any 1.0(25.4) .052(1.3) MÌN. * Weight: 1.10 grams .048(1.2) DIA ¥. Dimensions in inches and (millimeters)

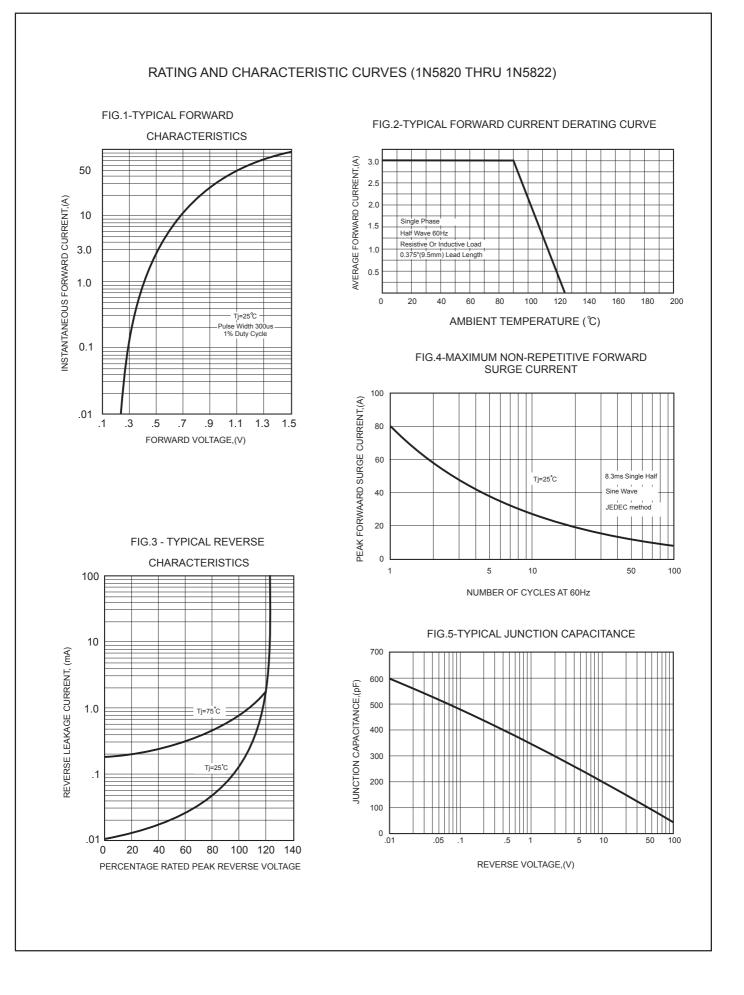
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess 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		2.0		
at Rated DC Blocking Voltage Ta=100 °C		20		
Typical Junction Capacitance (Note1)		250		pF
Typical Thermal Resistance RθJA (Note 2)		20		°C/W
Operating Temperature Range TJ		-65-+125		°C
Storage Temperature Range Tstg		-65-+150		

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.



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.