

## 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		
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 R0JA (Note 2)		20		°C/W
Operating Temperature Range TJ		-65-+125		
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.

