1N5820 THRU 1N5822

SCHOTTKY BARRIER RECTIFIER REVERSE VOLTAGE: 201

FORWARD CURRENT:

20 to 40 VOLTS 3.0 AMPERE

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ELECTRONICS

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Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	1N5820	1N5821	1N5822	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T _L =95	I _(AV)	3.0			Атр
Peak Forward Surge Current, 8.3ms single half-sine-wave	I _{FSM} 80				Amp
superimposed on rated load (JEDEC method)					
Maximum Forward Voltage at 3.0A DC	$V_{\rm F}$	0.475	0.50	0.525	- Volts
Maximum Forward Voltage at 9.4A DC		0.850	0.90	0.950	
Maximum Reverse Current at T _A =25	т	2.0			mAmp
at Rated DC Blocking Voltage T _A =100	IR	20			
Typical Junction Capacitance (Note 1)	CJ	250			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	28			/ W
Operating and Storage Temperature Range	$T_{\rm J}$, Tstg	-55 to +150			

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Ambient 0.5"(12.7mm) lead length P.C.B. Mounted.

RATINGS AND CHARACTERISTIC CURVES









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FIG. 2 - TYPICAL REVERSE CHARACTERISTICS