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1N5817S THRU 1N5819S *SCHOTTKY BARRIER RECTIFIER*

REVERSE VOLTAGE: FORWARD CURRENT:

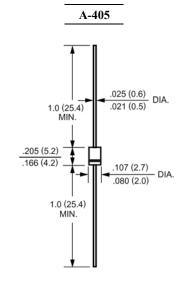
20 to 40 VOLTS 1.0 AMPERE



- \cdot High current capability
- \cdot 1.0 ampere operation at TL=90 $^\circ\!\! C$ with no
- thermal runaway.
- · Exceeds environmental standards of MIL-S-19500/228
- \cdot For use in low voltage, high frequency inverters
- free wheeling, and porlarlity protection applications

MECHANICAL DATA

Case: Molded plastic, A-405 Epoxy: UL 94V-O rate flame retardant Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Color band denotes cathode end Mounting position: Any Weight: 0.008ounce, 0.22gram



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Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	1N5817S	1N5818S	1N5819S	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 =90°C	I _(AV)	1.0			Amp
Peak Forward Surge Current,					
8.3ms single half-sine-wave	I _{FSM} 25			Атр	
superimposed on rated load (JEDEC method)					
Maximum Forward Voltage at 1.0A DC	V _F	0.45	0.55	0.60	Volts
Maximum Forward Voltage at 3.0A DC		0.75	0.875	0.90	
Maximum Reverse Current at T _A =25°C	т	0.5			
at Rated DC Blocking Voltage T _A =100°C	I _R 10				mAmp
Typical Junction Capacitance (Note 1)	CJ	110			pF
Typical Thermal Resistance (Note 2)	R _{0JA}	80			°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +125			C

NOTES:

1- Measured at 1 $\ensuremath{\text{MH}_{Z}}$ 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

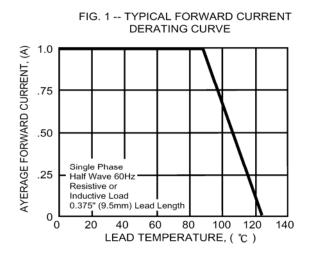
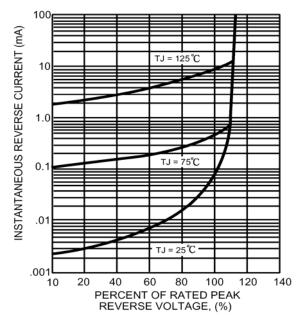
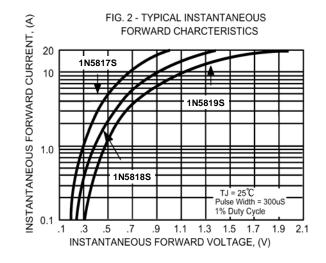


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS





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FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

