

1N5817S THRU 1N5819S

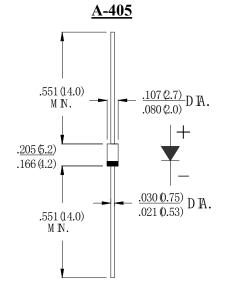
1.0AMP. SCHOTTKY BARRIER RECTIFIERS

FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed 260°C /10sec/ 0.375" lead length at 5 lbs tension

MECHANICAL DATA

- . Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- . Polarity: color band denotes cathode
- . Mounting position: any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number		SYMBOL	1N5817S	1N5818S	1N5819S	units
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	V
Maximum RMS Voltage		V _{RMS}	14	21	28	V
Maximum DC blocking Voltage		V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T _L =90°C		I _{F(AV)}	1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	25.0		A	
Maximum Forward Voltage at 1.0A DC		$V_{ m F}$	0.45 0.55		V	
Maximum DC Reverse Current at $@T_A =$	25°C	-	0.5			mA
rated DC blocking voltage $@T_A =$	=100°C	$I_{ m R}$	40.0			
Typical Junction Capacitance (Note 1)		CJ	110		pF	
Typical Thermal Resistance (Note 2)		R (JA)	75		°C /W	
Storage Temperature		T _{STG}	-55 to +150			°C
Operation Junction Temperature		TJ	-55 to +125			°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C. Board Mounted.