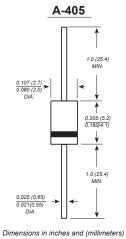


1N5817S THRU 1N5819S

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 40Volts Forward Current - 1.0 Ampere



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- Guardring for overvoltage protection
- Low power loss, high efficiency
- ◆ High current capability,low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- → High temperature soldering guaranteed: 250°C/10 seconds,0.375″(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC A-405 molded plastic body

Terminals: Plated axial leads, solderablé per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for current capacitive load derate by 20%.

	SYMBOLS	1N5817S	1N5818S	1N5819S	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	VOLTS
Maximum RMS voltage	VRMS	14	21	28	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at TL=90 ℃	l _(AV)		1.0		Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM		25.0		Amps
Maximum instantaneous forward voltage at 1.0A	VF	0.450	0.550	0.600	Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lr	0.5 10.0			mA
Typical junction capacitance (NOTE 1)	CJ	110.0			pF
Typical thermal resistance (NOTE 2)	RθJA	50.0			°C/W
Operating junction and storage temperature range	Тл,Твтв		-65 to +125		°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES 1N5817S THRU 1N5819S

