1N5817WS THRU 1N5819WS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Forward Current-1.0A

Reverse Voltage-20V to 40V

FEATURES

- Metal silicon junction, majority carrier conduction
- High current capability
- Low power loss, high efficiency
- Guarding for overvoltage protection
- For use in low voltage, high frequency inverters, free
- Low forward voltage drop
- High surge capability

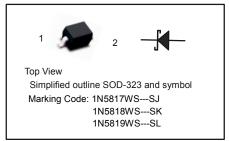
wheeling, and polarity protection applications

MECHANICAL DATA

- Case:SOD-323
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 5.48mg / 0.00019oz

PINING

PIN	DESCRIPTION
1	Cathode
2	Anode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

PARAMETER	SYMBOL	1N5817WS	1N5818WS	1N5819WS	UNIT
Maximum Repetitive 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 at Tc=75℃	IF(AV)		1.0		A
Peak Forward Surge Current (Note1)	IFSM		25		А
Maximum Forward Voltage at 1.0 A 3.0 A	VF	0.45 0.75	0.55 0.875	0.6 0.9	V
Maximum DC Reverse Current at Rated DC Blocking Voltage at T _A =25°C T _A =100°C	IR	1 10		mA	
Typical Junction Capacitance (Note2)	CJ		110		pF
Operating and Storage Temperature Range	Тј,Тѕтб		-55 to +150		°C

Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

2. Measured at 1MHz and applied reverse voltage of 4 V D.C.

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RATINGS AND CHARACTERISTIC CURVES

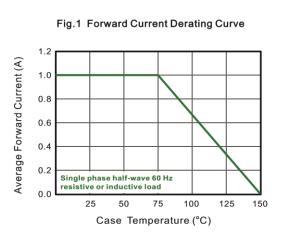
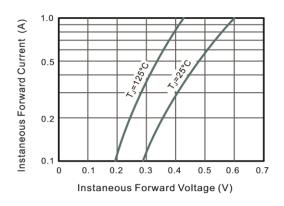
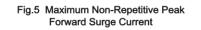


Fig.3 Typical Forward Characteristic





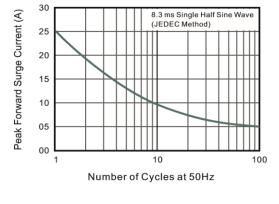


Fig.2 Typical Reverse Characteristics

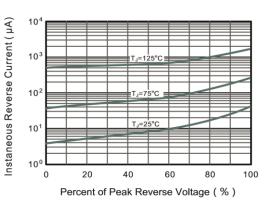
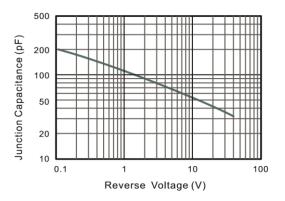


Fig.4 Typical Junction Capacitance



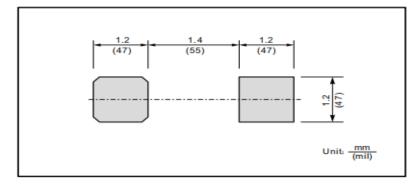
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SOD-323

PACKAGE OUTLINE

Е -----∠ALL ROUND L E1 SOD-323 mechanical data UNIT А С D Е E1 b A1 2 L₁ 0.15 0.45 0.2 max 1.4 2.75 0.4 1.1 1.8 mm 0.08 0.25 0.2 min 0.8 1.2 1.4 2.55 _ 9° 70 16 max 43 5.9 55 108 16 8 mil min 32 3.1 47 63 100 9.8 7.9 _

The recommended mounting pad size



ORDERING INFORMATION

Device	Package	Shipping		
1N5817WS 1N5818WS 1N5819WS	SOD-323	3,000/Tape & Reel (7 inches)		