

SCHOTTKY BARRIER RECTIFIER

1N5817SF - 1N5819SF

VOLTAGE RANGE - 20 to 40 V CURRENT - 1 A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring 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:260 °C/10 seconds, at terminals, 0.375" (9.5 mm)lead length, 5lbs (2.3 kg)tension



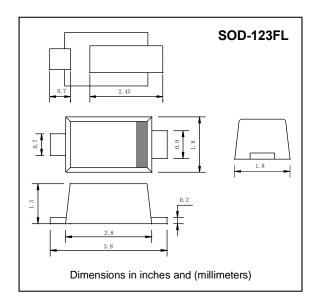
Case: SOD-123FL molded plastic body

• Lead finish: 100% Matte Sn (Tin)

• Polarity: Color band denotes cathode end

Mounting Position: Any

Weight:11.7 mg (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25\,^{\circ}$ C ambient temperature unless otherwise specified, Single phase, half wave, resistive or inductive load. For capacitive load, derate by 20%.

	Symbols	IN5817SF	IN5818SF	IN5819SF	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 non-repetitive peak reverse voltage	VRSM	24	36	48	Volts
Maximum average forward rectified current	I(AV)	1.0		Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) at TL=70 C	IFSM	25.0			Amps
Maximum instantaneous forward voltage at 1.0 A(note 1)	VF	0.450	0.550	0.600	Volts
Maximum instantaneous forward voltage at 3.1 A(note 1)	VF	0.750	0.875	0.900	Volts
Maximum instantaneous reverse	Ĉ IR	0.2			mA
current at rated DC blocking voltage(Note I) $T_A = T_A$		10.0			
Typical junction capacitance(Note 3)	CJ	110.0			PF
Typical thermal resistance(Note 2)	R _θ JA R _θ JL		82.0 26.0		
Operating junction and storage temperature range	TJ TSTG		-65 to +150		°C

Notes:

- 1. Pulse test: 300 µs pulse width 1% duty cycle
- 2. Thermal resistance (from junction to ambient) Vertical P.C.B. mounted with 1" copper pad (Cu area 700 mm²)
- 3. Measured at 1.0 MHz and reverse voltage of 4.0 Volts.

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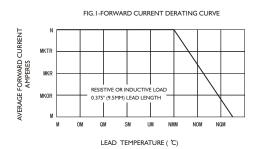


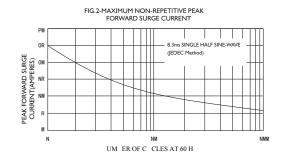
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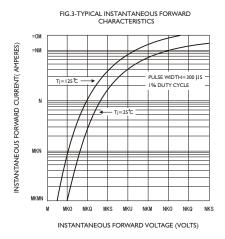
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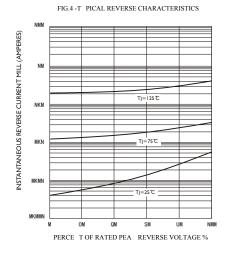
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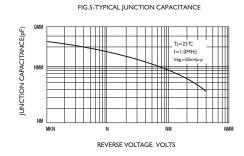
RATINGS AND CHARACTERISTIC CURVES 1N5817SF - 1N5819SF

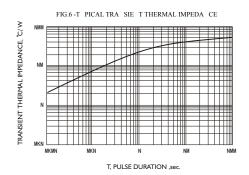












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