

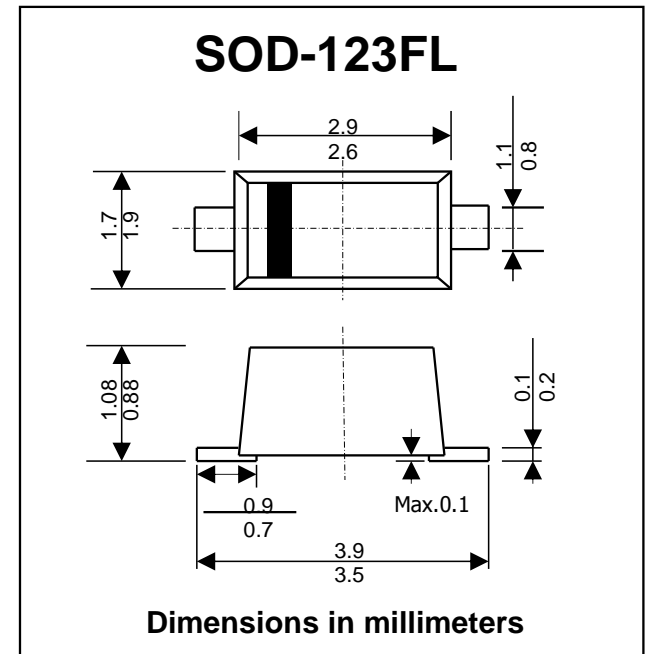
1N5817W - 1N5819W

PRV : 20 - 40 Volts
I_o : 1.0 Ampere

MECHANICAL DATA :

- * Case : SOD-123FL
- * Weight: 0.006 ounces, 0.02 gram

SCHOTTKY BARRIER RECTIFIER DIODES



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATING	SYMBOL	1N5817W	1N5818W	1N5819W	UNIT
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 Current 0.375", 9.5mm Lead Length	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			A
Maximum Forward Voltage at I _F = 1.0 A at I _F = 3.0 A	V _F	0.45 0.75	0.55 0.875	0.60 0.90	V
Maximum Reverse Current Ta = 25 °C	I _R	0.5			mA
at Rated DC Blocking Voltage (Note 1) Ta = 100 °C	I _{R(H)}	10			mA
Typical Thermal Resistance (Note 2)	R _{θJL}	75			°C/W
Typical Junction Capacitance (Note 3)	C _J	110			pF
Junction Temperature Range	T _J	-55 to + 125			°C
Storage Temperature Range	T _{STG}	-55 to + 150			°C

Notes :

- (1) Pulse Test : Pulse Width = 300 μs, Duty Cycle = 1%.
- (2) Thermal Resistance from junction to ambient 0.24"x0.24" (6 x 6mm.) copperpads each terminals.
- (3) Measured at 1 MHz and applied reverse voltage of 4.0 volts.