



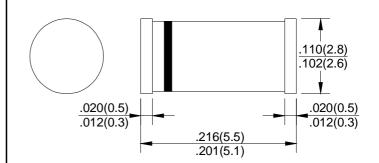
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 40 Volts FORWARD CURRENT - 1.0 Ampere

FEATURES

- Metal-Semiconductor junction with gard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low vlotage, high frequency inverters, free wheeling, and polarity protection applications

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MECHANICAL DATA

●Case: Molded Plastic

Polarity: Indicated by cathode bandWeight: 0.002 ounces, 0.015 grams

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SM5817	SM5818	SM5819	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	V
Maximum RMS Voltage	VRMS	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified Current @Ta =90 ℃	I(AV)	1.0			А
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	25			А
Maximum Forward Voltage at 1.0A DC	VF	0.450	0.550	0.600	V
Maximum Forward Voltage at 3.0A DC	VF	0.750	0.875	0.900	V
Maximum DC Reverse Current @Ta=25℃ at Rated DC Bolcking Voltage @Ta=100℃	lR	1.0 10			mA
Typical Junction Capacitance (Note1)	Cı	110			pF
Typical Thermal Resistance (Note2)	Reja	80			°C/W
Operating Temperature Range	TJ	-55 to +150			°C
Storage Temperature Range	Тѕтс	-55 to +150			$^{\circ}$

NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

2. Thermal resistance junction to ambient,



