

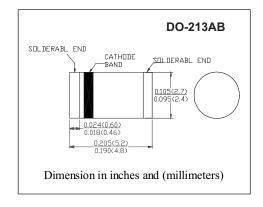
Voltage Range - 20 to 40 V Forward Current - 1 Ampere

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

FEATURES

- Fast switching
- Low forward voltage drop.
- Low power loss , high efficiency
- High surge capability
- High reliability
- High current capability
- Plastic package has underwrites laboratory flammability classification 94v-0
- High temperature soldering guaranteed:

250 °C/10 seconds at terminals.



MECHANICAL DATA

Case: molded plastic

Polarity: Color band indicate cathode

Mounting Position: Any. ■ Weight: 0.12 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 capacitive load derate current by 20%.

		SYMBOLS	SM5817	SM5818	SM5819	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	20	30	40	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current, at T_L =90 $^{\circ}C$		I _(AV)	1.0			Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	25			Amps
Maximum Instantaneous Forward Voltage at 1.0A		V	0.450	0.550	0.600	Volts
Maximum DC Reverse Current at rated DC blocking voltage at (Note1)	T _A =25 °C T _A =125 °C	$ I_R$		0.5 10		mA
Typical Junction Capacitance (Note 2)		C _J	110			PF
Maximum Thermal Resistance		R _{QJL} (Note3) R _{QJA} (Note4)	30 80			°C/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55 to +125			°C

NOTES:

- 1. Pulse test:300 μs pulse width 1% duty cycle
- Measured at 1.0MHZ and applied reverse voltage of 4.0 volts DC.
 Thermal resistance junction to terminal 6.0mm² copper pads to each terminal.
 Thermal resistance junction to ambient 6.0mm² copper pads to each terminal.

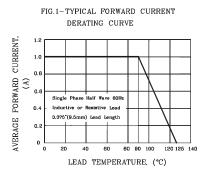
Email: sales@micindia.com Website: www.micindia.com

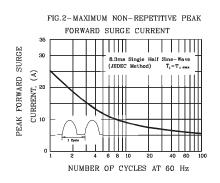


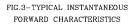
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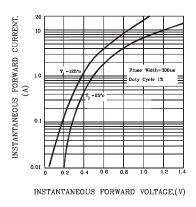
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RATING AND CHARACTERISTIC CURVES SM5817 - SM5819









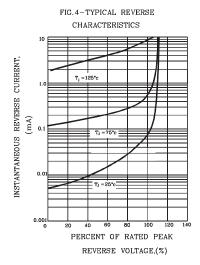
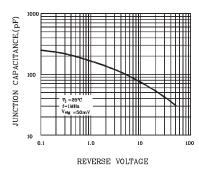


FIG.5-TYPICAL JUNCTION CAPACITANCE



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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