# DC COMPONENTS CO., LTD.

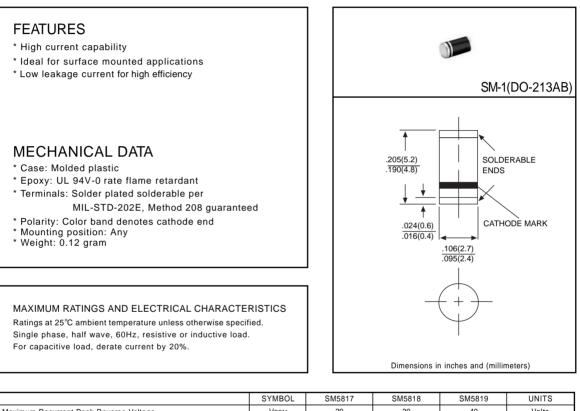
### RECTIFIER SPECIALISTS

SM5817 THRU SM5819

## TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 40 Volts

CURRENT - 1.0 Ampere

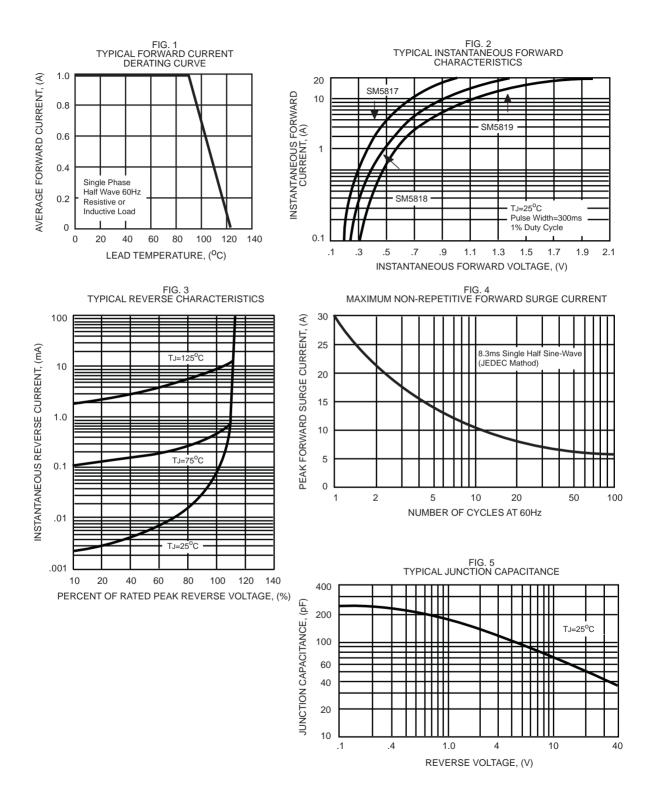


		SYMBOL	SM5817	SM5818	SM5819	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	20	30	40	Volts
Maximum RMS Voltage		Vrms	14	21	28	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	Volts
Maximum Average Forward Rectified Current at TA=90°C		ю	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30			Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	.45	.55	.60	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	Ir	1.0			- mAmps
	@TA = 100°C		10			
Typical Thermal Resistance (Note1)		RθJA	75			°C/W
Typical Junction Capacitance (Note 2)		CJ	110			pF
Storage Operating Temperature Range		TJ, TSTG	-55 to + 125			°C

NOTES : 1. Thermal Resistance (Junction to Ambient), .24in2 (6.0mm2) copper pads to each terminal.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

# **RATING AND CHARACTERISTIC CURVES (SM5817 THRU SM5819)**



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