# DC COMPONENTS CO., LTD.

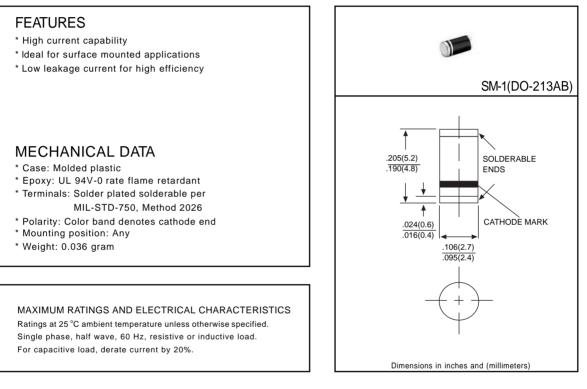
# RECTIFIER SPECIALISTS

SM150 THRU SM1100

#### TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 50 to 100 Volts

CURRENT - 1.0 Ampere



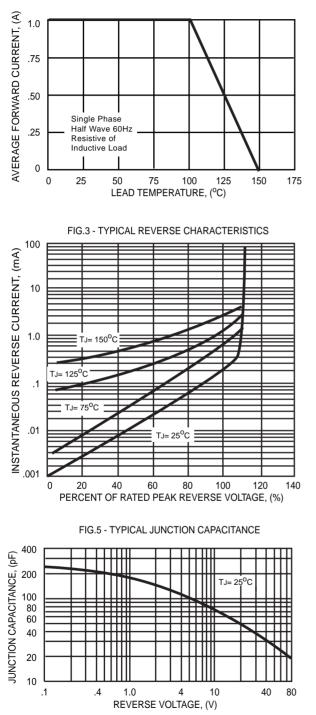
		SYMBOL	SM150	SM160	SM180	SM1100	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	60	80	100	Volts
Maximum RMS Voltage		Vrms	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	50	60	80	100	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 55°C		ю	1.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	25			Amps	
Maximum Instantaneous Forward Voltage at 0.5A DC		VF	0.7	70 0.85		.85	Volts
Maximum DC Reverse Current	@TA = 25°C	- IR	1.0				mAmps
at Rated DC Blocking Voltage	@TA = 100°C	IR	10				
Typical Thermal Resistance (Note 1)		RθJA	75				°C/W
Typical Junction Capacitance (Note 2)		CJ	80			pF	
Storage Operating Temperature Range		TJ, TSTG	-55 to +150			٥C	

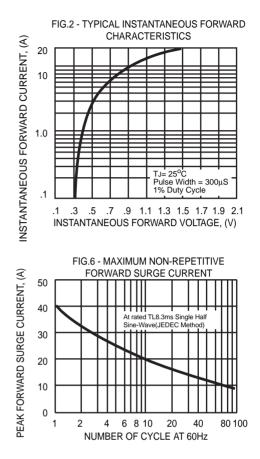
NOTES : 1. Thermal Resistance (Junction to Ambient), 24in<sup>2</sup>(6.0mm<sup>2</sup>) copper pads to each terminal.

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

### RATING AND CHARACTERISTIC CURVES (SM150 THRU SM1100)

#### FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE





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