

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SM220 THRU SM2100

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 100 Volts

CURRENT - 2.0 Amperes

FEATURES

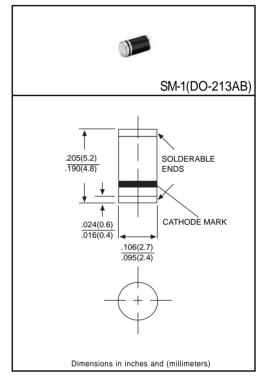
- * High current capability
- * Ideal for surface mounted applications
- * Low leakage current for high efficiency

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant *Terminals: Solder plated solderable per
- MIL-STD-202E, Method 208 guaranteed
- MIL OTD ZOZE, Method Zoo guarante
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.12 gram

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%.



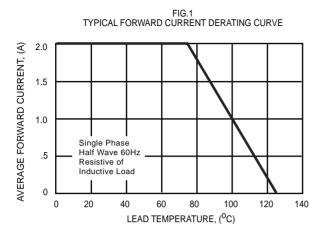
		SYMBOL	SM220	SM230	SM240	SM250	SM260	SM280	SM2100	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at TA=75°C		Ю	2.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	40						Amps	
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	.45	.55	.60	.7	'5	.8	5	Volts
Maximum DC Reverse Current at	@Ta = 25°C	l _R	2.0							mAmps
Rated DC Blocking Voltage	@Ta = 100°C] IR	20							
Typical Thermal Resistance (Note1)		RθJA	40							°C/W
Typical Junction Capacitance (Note 2)		Cı	200							pF
Storage Operating Temperature Range		TJ, TSTG	-55 to + 125							°C

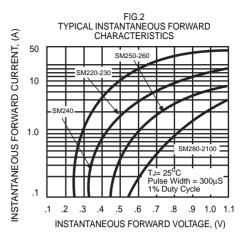
NOTES: 1. Thermal Resistance (Junction to Ambient), .24in2 (6.0mm2) copper pads to each terminal.

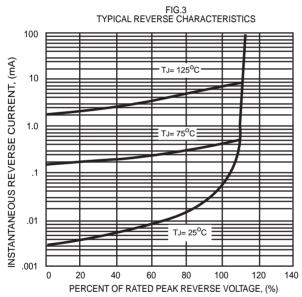
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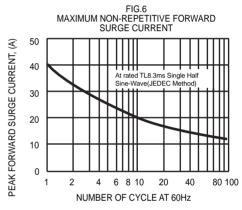
^{2.} Measured at 1 MHz and applied reverse voltage of 4.0 volts.

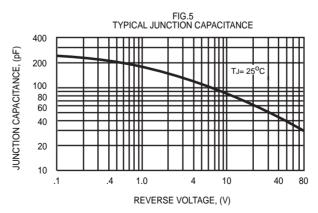
RATING AND CHARACTERISTIC CURVES (SM220 THRU SM2100)











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