DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SM120M THRU SM1100M

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 100 Volts

FEATURES

* High current capability

MECHANICAL DATA

* Case: Molded plastic

* Mounting position: Any

* Weight: 0.036 gram

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

 * Epoxy: UL 94V-0 rate flame retardant
* Terminals: Solder plated solderable per MIL-STD-750, Method 2026

* Polarity: Color band denotes cathode end

For capacitive load, derate current by 20%.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

SM-2(DO-213AA)

CURRENT - 0.5 Ampere

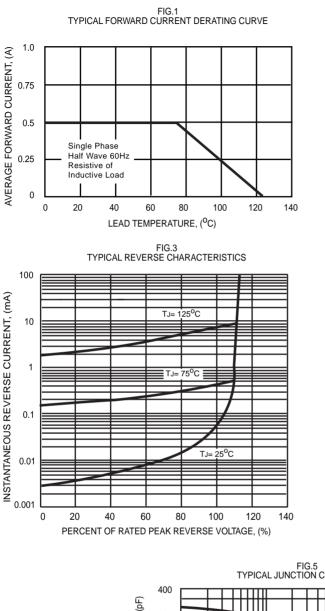
Dimensions in inches and (millimeters)

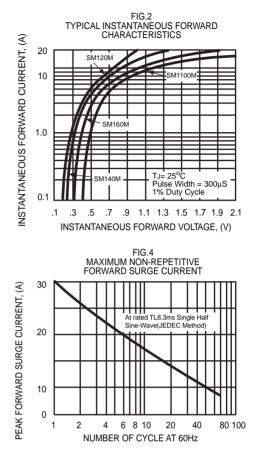
		SYMBOL	SM120M	SM130N	1SM140M	SM150M	SM160M	SM180M	SM1100M	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		Vrms	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at $T_{\text{A}}=75^{\circ}\text{C}$		ю		0.5						
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	0.45	0.55	0.60	0.7	75	0.8	85	Volts
Maximum DC Reverse Current	@TA = 25°C	- IR	1.0							mAmps
at Rated DC Blocking Voltage	@TA = 100°C		10							
Typical Thermal Resistance (Note 1)		RθJA		75						
Typical Junction Capacitance (Note 2)		CJ		110						
Storage Operating Temperature Range		TJ, TSTG		-55 to +125						

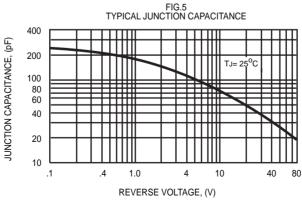
NOTES : 1. Thermal Resistance (Junction to Ambient), 24in²(6.0mm²) copper pads to each terminal.

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

RATING AND CHARACTERISTIC CURVES (SM120M THRU SM1100M)







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