DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU SM4007

SM4001

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

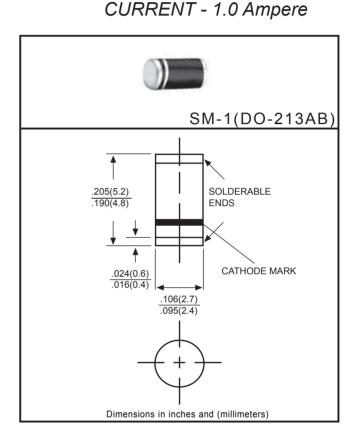
- * Ideal for surface mounted applications
- * Glass passivated junction
- * Low leakage current
- * Low profile package

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94-V0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * 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%.

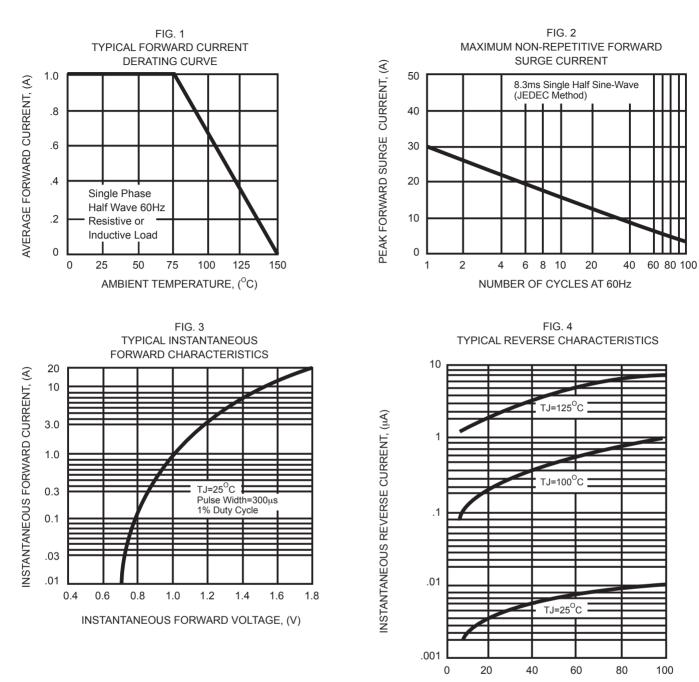


	SYMBOL	SM4001	SM4002	SM4003	SM4004	SM4005	SM4006	SM4007	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo	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	1.1					Volts		
Maximum DC Reverse Current at Rated $@TJ = 25^{\circ}C$ DC Blocking Voltage $@TJ = 125^{\circ}C$	- Ir	5.0 50						μAmps	
Typical Junction Capacitance (Note 1)	CJ	9.0					рF		
Typical Thermal Resistance (Note 2)	Rejl	50				°C/W			
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150					°C		

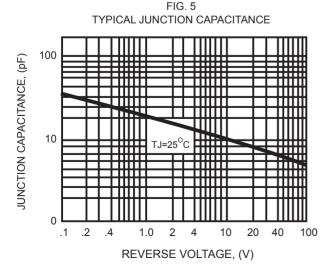
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Note 1 :Measured at 1 MHz and applied reverse voltage of 4.0 volts. Note 2 :Typical thermal resistsnce from junction to lead.

RATING AND CHARACTERISTIC CURVES (SM4001 THRU SM4007)



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)



REV-4.0CT.2020

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