

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

S1A **THRU** S₁M

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Glass passivated junction
- * Low leakage current
- * Low forward voltage drop
- * High surge capability

MECHANICAL DATA

* Case: Molded plastic

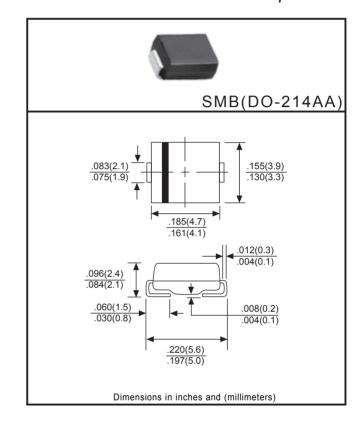
* Epoxy: UL 94-V0 rate flame retardant * Terminals: Solder plated solderable per

MIL-STD-750, Method 2026

* Polarity: As marked * Mounting position: Any * Weight: 0.093 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%.

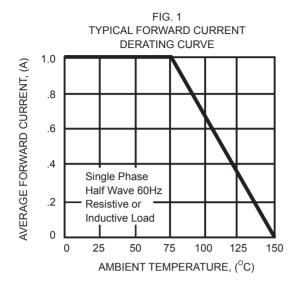


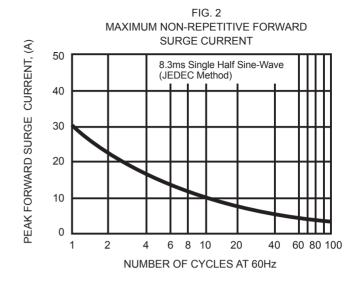
	SYMBOL	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo	1.0							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°C	lr	5.0							μAmps
DC Blocking Voltage @TJ = 125°C		50							
Typical Junction Capacitance (Note 1)	CJ	15						pF	
Typical Thermal Resistance (Note 2)	RøJL	25							°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150							°C

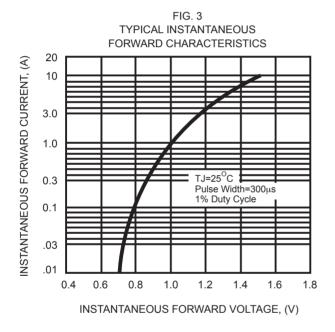
Note 1 :Measured at 1 MHz and applied reverse voltage of 4.0 volts. Note 2 :Typical thermal resistsnce from junction to lead.

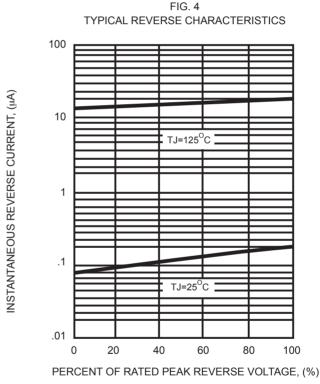
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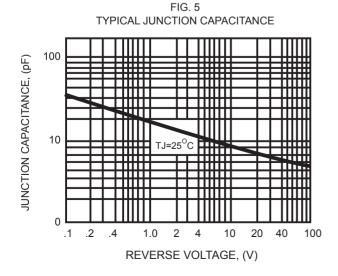
RATING AND CHARACTERISTIC CURVES (S1A THRU S1M)











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