# S2A THRU S2M

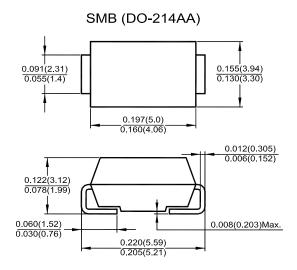
## **Surface Mount General Rectifiers** Reverse Voltage - 50 to 1000 V Forward Current - 2 A

## Features

- The plastic package carries UL flammability classification 94V-0
- High forward surge current capability
- Low reverse current

#### **Mechanical Data**

- · Case: SMB (DO-214AA) molded plastic body
- · Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Mounting position: Any



Dimensions in inches and (millimeters)

#### **Maximum Ratings and Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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Parameter	Symbols	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current at T <sub>L</sub> = 110 $^{\circ}$ C	I <sub>F(AV)</sub>	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	60							A
Maximum Forward Voltage at I <sub>F</sub> = 2 A	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Currentat $T_a = 25 \ ^{\circ}C$ at Rated DC Blocking Voltageat $T_a = 100 \ ^{\circ}C$	I <sub>R</sub>	5 50							μA
Typical Junction Capacitance <sup>1)</sup>	CJ	30							pF
Typical Thermal Resistance 2)	$R_{ extsf{ heta}JA}$	50							°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	- 65 to + 175							°C

 $^{1)}$  Measured at 1 MHz and applied reverse voltage of 4 V.

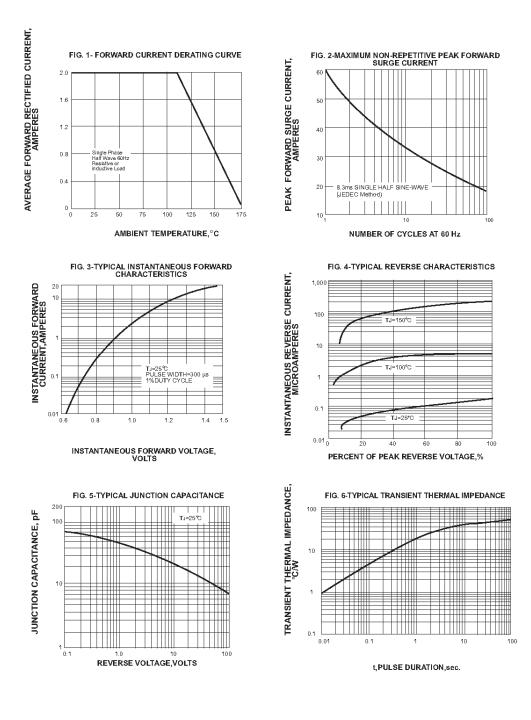
 $^{2)}$  P.C.B mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas

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