

# S2A THRU S2M

### SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

#### **MECHANICAL DATA**

**Case**: JEDEC SMB/DO-214AA molded plastic body **Terminals**: Solder plated , solderable per MIL-STD-750, Mathed 2026

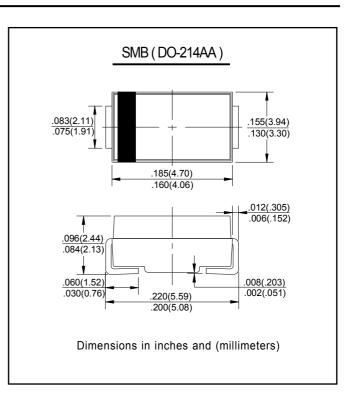
Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.138 grams





## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>L</sub> = 110°C	lo	2.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60						А	
Forward Voltage @I <sub>F</sub> = 2.0A	VFM	1.10						V	
	IRM	5.0 50							μА
Typical Junction Capacitance (Note 2)	Cj	15						pF	
Typical Thermal Resistance (Note 3)	RθJL	16					°C/W		
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150°C							°C

Note: 1. Measured with  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{rr} = 0.25A$ ,

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm<sup>2</sup> land area.



# S2A THRU S2M RATINGS AND CHARACTERISTIC CURVES

