

RS2AD THRU RS2MD

Surface Mount Fast Recovery Rectifiers

Reverse Voltage – 50 to 1000 V

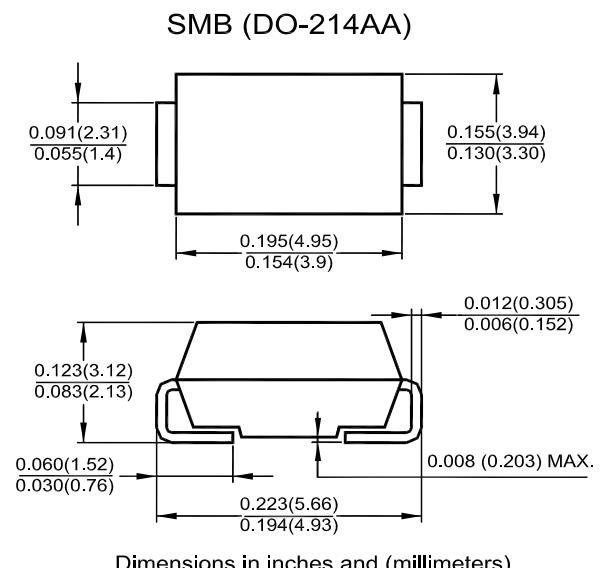
Forward Current – 2 A

Features

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

Mechanical Data

- Case:** Molded plastic body, JEDEC SMB (DO-214AA)
- Terminals:** Solder plated, solderable per MIL-STD-750, method 2026
- Polarity:** Color band denotes cathode end.
- Mounting Position:** Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

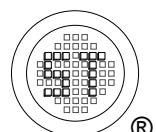
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half-wave 60 Hz, resistive or inductive load. For capacitive load current derate by 20%.

Parameter	Symbols	RS2AD	RS2BD	RS2DD	RS2GD	RS2JD	RS2KD	RS2MD	Units				
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V				
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V				
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V				
Maximum Average Forward Rectified Current at T _L = 90 °C	I _{F(AV)}	2						A					
Peak Forward Surge Current 8.3 ms Single half Superimposed on Rated Load (JEDEC method)	I _{FSM}	50						A					
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.3						V					
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 100 °C	I _R	5 50						μA					
Maximum Reverse Recovery Time ¹⁾	t _{rr}	150		250		500		ns					
Typical Junction Capacitance ²⁾	C _j	50						pF					
Typical Thermal Resistance ³⁾	R _{θJA}	20						°C/W					
Operating Junction Temperature Range	T _j	- 65 to + 150						°C					
Storage Temperature Range	T _{stg}	- 65 to + 150						°C					

¹⁾ Reverse recovery condition I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A.

²⁾ Measured at 1 MHz and applied reverse voltage of 4 V.

³⁾ P.C.B mounted with 0.2 × 0.2" (5 × 5 mm) copper pad areas.



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