

RS2A THRU RS2M

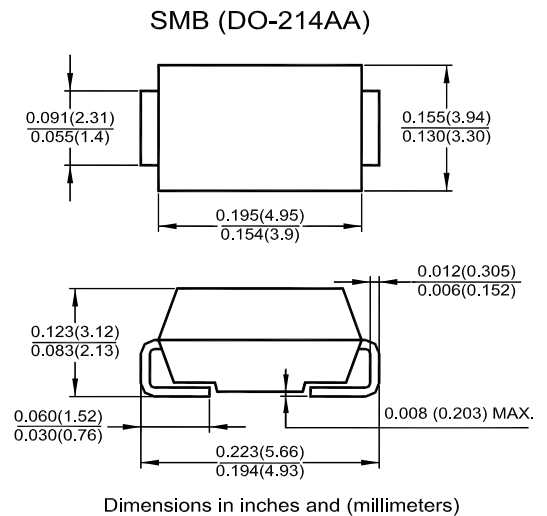
Surface Mount Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 2 A

Features

- Glass passivated junction
- 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

Mechanical Data

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



Absolute Maximum Ratings and Characteristics

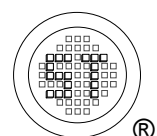
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half-wave 60 Hz , resistive or inductive load.
For capacitive load current derate by 20%.

Parameter	Symbols	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	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 = 125°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 $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{rr} = 0.25\text{ A}$.

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

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



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