

RS2A THRU RS2M

Surface Mount Fast Recovery Rectifiers

Reverse Voltage – 50 to 1000 V

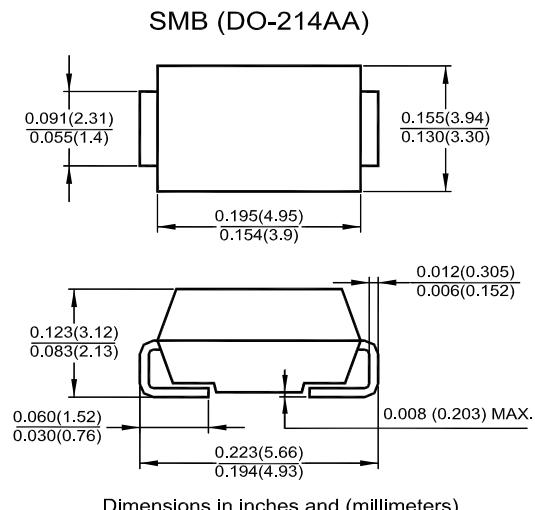
Forward Current – 2 A

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



Absolute Maximum Ratings and Characteristics

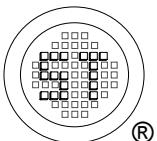
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half-wave 60 Hz, resistive or inductive load. For capacitive load current derate by 20%.

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)}								A
Peak Forward Surge Current 8.3 ms Single half Superimposed on Rated Load (JEDEC method)	I _{FSM}								A
Maximum Instantaneous Forward Voltage at 2 A	V _F								V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 100 °C	I _R								µA
Maximum Reverse Recovery Time ¹⁾	t _{rr}		150		250		500		ns
Typical Junction Capacitance ²⁾	C _j								pF
Typical Thermal Resistance ³⁾	R _{θJA}								°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.

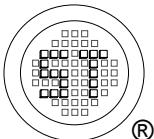
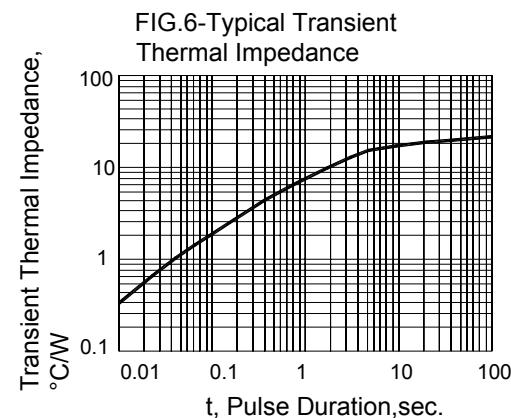
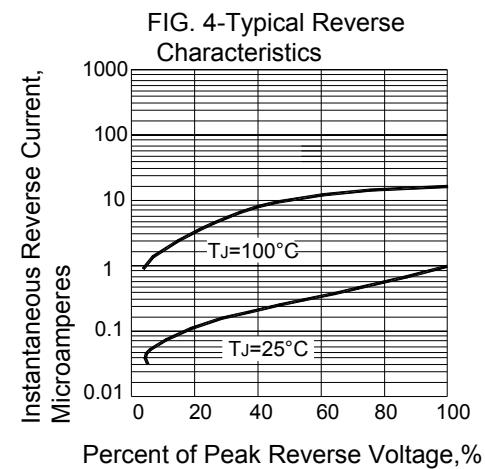
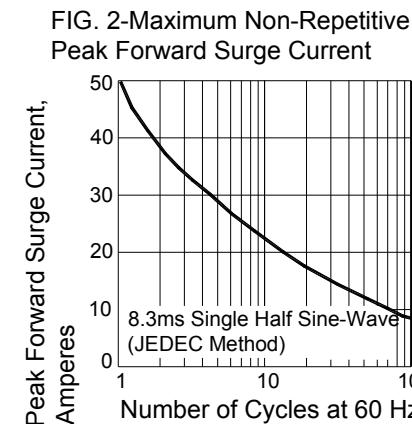
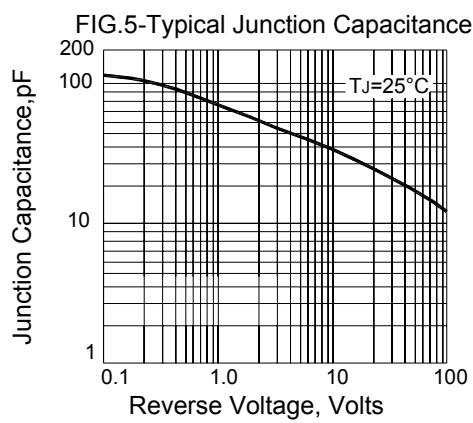
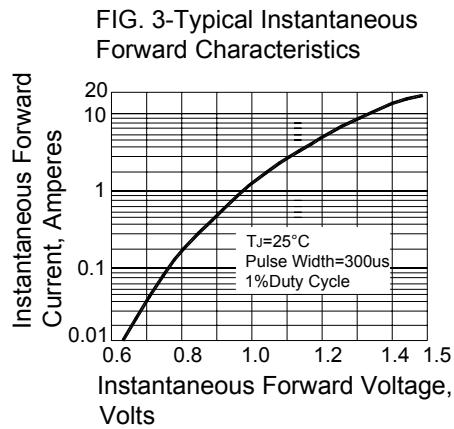
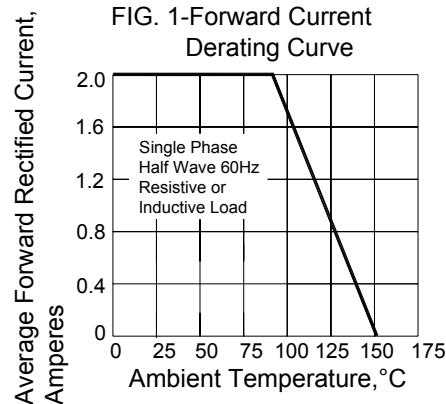
³⁾ P.C.B mounted with 0.2 × 0.2" (5 × 5 mm) copper pad areas.



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