FR2AD THRU FR2MD

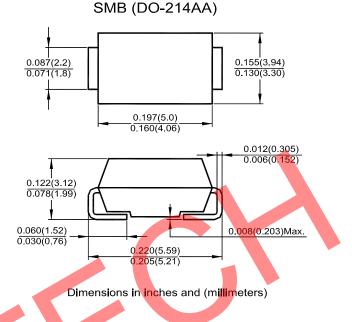
Surface Mount Fast Recovery Rectifier Reverse Voltage – 50 to 1000 V Forward Current – 2 A

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- · Fast switching for high efficiency
- · Low reverse leakage
- · High forward surge current capability
- · For surface mounted applications

Mechanical Data

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



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	FR2AD	FR2BD	FR2DD	FR2GD	FR2JD	FR2KD	FR2MD	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
Average Forward Rectified Current at $T_L = 90 \ ^{\circ}C$	I _(AV)	2							А
Peak Forward Surge Current 8.3 ms Single Half-sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							А
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.3							V
Maximum Reverse Current $T_A = 25 ^{\circ}C$ at Rated DC Blocking Voltage $T_A = 100 ^{\circ}C$	I _R	5 50							μA
Maximum Reverse Recovery Time ¹⁾	t _{rr}	150		250	500		ns		
Typical Junction Capacitance ²⁾	CJ	50							pF
Typical Thermal Resistance 3)	R _{0JA}	20						°C/W	
Operating Junction and Storage Temperature Range	Tj, T _{stg}	- 65 to + 150							°C

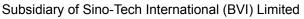
 $^{1)}$ Reverse recovery conditions: I_{F} = 0.5 A, I_{R} = 1 A, I_{rr} = 0.25 A

 $^{\rm 2)}$ Measured at 1 MHz and applied reverse voltage of 4 V.

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



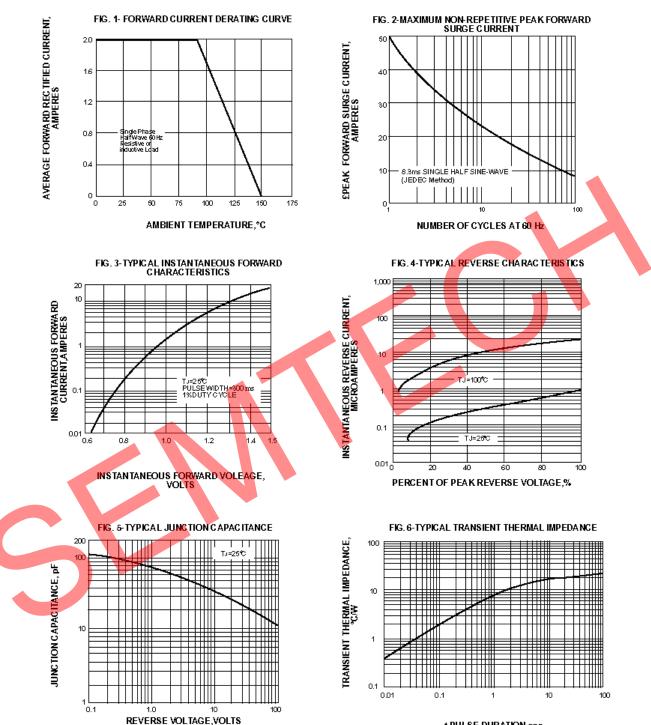






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t,PULSE DURATION,sec.





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