

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	FR2A	FR2B	FR2D	FR2G	FR2J	FR2K	FR2M	UNITS
Maximum Recurrent 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 Rectified Current	I _{F(AV)}	2					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50					A		
Maximum Forward Voltage at 2A	V _F	1.3					V		
Maximum DC Reverse Current at Rated DC Blocking $T_j=25^{\circ}C$ Voltage $T_j=125^{\circ}C$	I _R	1 150					μΑ		
Maximum Reverse Recovery Time (Notes 1)	t _{rr}	150 250 500		00	ns				
Maximum Junction Capacitance (Notes 2)	C	40					pF		
(Notes 3) Typical Junction Resistance (Notes 4) (Notes 5)	R _{ejc}	20 12.5 125				°C / W			
Operating Junction and Storage Temperature Rating	T _J ,T _{stg}	-50 to +150				°C			

NOTES:1. Reverse Recovery Test Conditions: IF=0.5A, IR=-1A, Irr=-0.25A

2. Measured at 1 MHz and applied $V_r = 4$ volts.

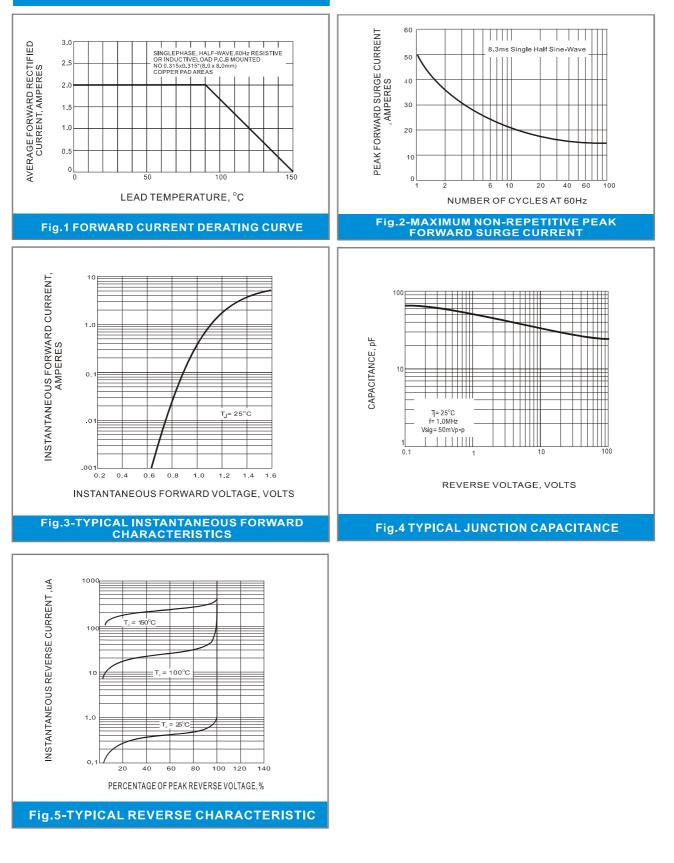
3. 8 mm² (0.013 mm thick) land areas.

4. Mounted on a FR4 PCB with 100cm^2 copper pad area

5. Mounted on a FR4 PCB with min. copper pad area .



RATING AND CHARACTERISTIC CURVES



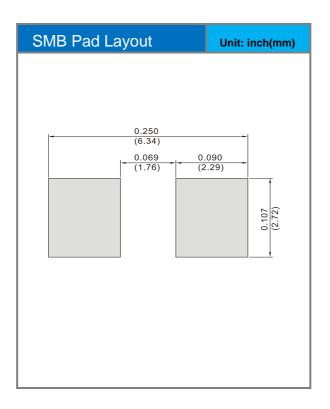


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
FR2A	SMB	0.8K pcs / 7" reel	FR2A
FR2A	SMB	3K pcs / 13" reel	FR2A
FR2B	SMB	0.8K pcs / 7" reel	FR2B
FR2B	SMB	3K pcs / 13" reel	FR2B
FR2D	SMB	0.8K pcs / 7" reel	FR2D
FR2D	SMB	3K pcs / 13" reel	FR2D
FR2G	SMB	0.8K pcs / 7" reel	FR2G
FR2G	SMB	3K pcs / 13" reel	FR2G
FR2J	SMB	0.8K pcs / 7" reel	FR2J
FR2J	SMB	3K pcs / 13" reel	FR2J
FR2K	SMB	0.8K pcs / 7" reel	FR2K
FR2K	SMB	3K pcs / 13" reel	FR2K
FR2M	SMB	0.8K pcs / 7" reel	FR2M
FR2M	SMB	3K pcs / 13" reel	FR2M



Mounting Pad Layout





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