

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 | | 1.3 | | | | | | V | |
| Maximum DC Reverse Current at Rated DC Blocking T _j =25°C Voltage T _j =125°C | I _R | 1 150 | | | | | | μΑ | |
| Maximum Reverse Recovery Time (Notes 1) | | 150 | | | 250 500 | | ns | | |
| Maximum Junction Capacitance (Notes 2) | C | ; | | 40 | | | | | pF |
| (Notes 3 Typical Junction Resistance (Notes 4 (Notes 5 | | 20 12.5 125 | | | | °C / W | | | |
| Operating Junction and Storage Temperature Rating | | -50 to +150 | | | | | | °C | |

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

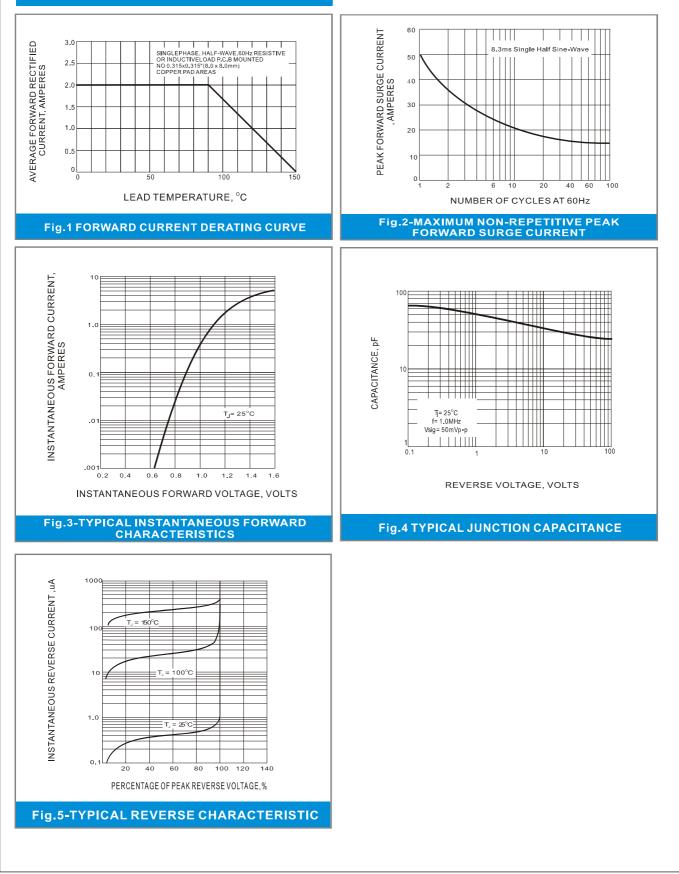
2. Measured at 1 MHz and applied $V_r = 4$ volts.

3. 8 mm² (0.013 mm thick) land areas.

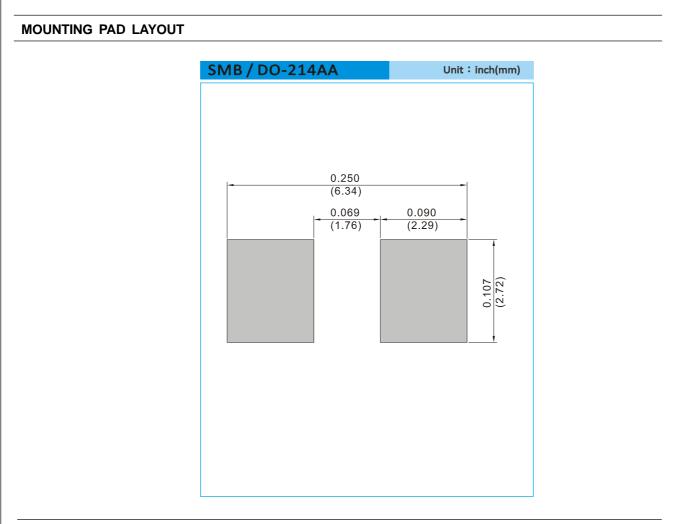
4. Mounted on a FR4 PCB with $100 \mbox{cm}^2$ copper pad area

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

RATING AND CHARACTERISTIC CURVES







ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





Part No_packing code_Version

FR2A_R1_00001 FR2A_R2_00001

For example :

RB500V-40_R2_00001



- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

| Packing Code XX | | | | Version Code XXXXX | | | | |
|---|----------------------|-------------------------------------|----------------------|--------------------|----------------------|---------------------------------------|--|--|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code | | |
| Tape and Ammunition Box (T/B) | Α | N/A | 0 | HF | 0 | serial number | | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | | |
| Tube Packing (T/P) | т | 26mm | X | | | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | | | |





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