

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

| PARAMETER | SYMBOL | FR1AAFC | FR1BAFC | FR1DAFC | FR1GAFC | FR1JAFC | FR1KAFC | FR1MAFC | UNITS |
|--|--------------------------------------|-------------|---------|---------|---------|---------|---------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 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 | VR | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current | IF(AV) | | 1 | | | | | A | |
| Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load | IFSM | | 30 | | | | A | | |
| Instantaneous Forward Voltage at 1A | VF | 1.3 | | | | | V | | |
| Reverse Current $T_J = 25 \circ C$ $T_J = 125 \circ C$ | IR | 1 150 | | | | | uA | | |
| Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$ | CJ | | 1 | 5 | | | 7 | | pF |
| Reverse Recovery Time ^(Note 1) | T _{RR} | | 15 | 50 | | 250 | 5 | 00 | ns |
| Typical Thermal Resistance (Note 2) (Note 3) | R _{θJL} R _{θJA} | 31 150 | | | | | °C/W | | |
| Operating Junction Temperature Range | TJ | -55 to +150 | | | | | °C | | |
| Storage Temperature Range | Tstg | -55 to +150 | | | | °C | | | |

NOTES:

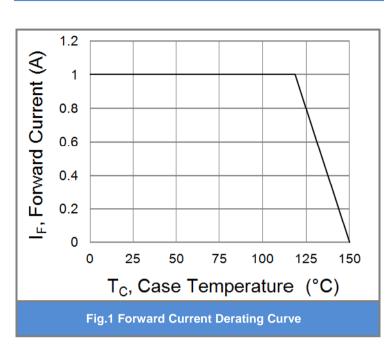
1. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Recover to 0.25A

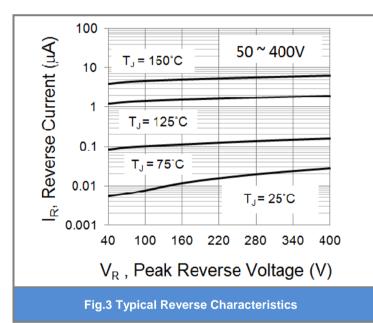
2. Mounted on a FR4 PCB, single-sided copper, with 48cm² copper pad area

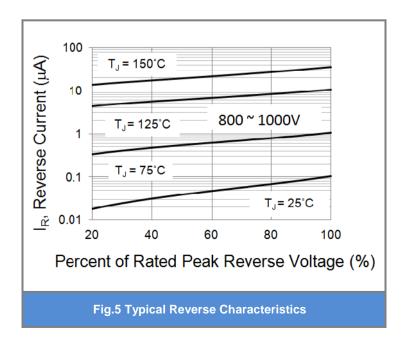
3. Mounted on a FR4 PCB, single-sided copper, standard footprint

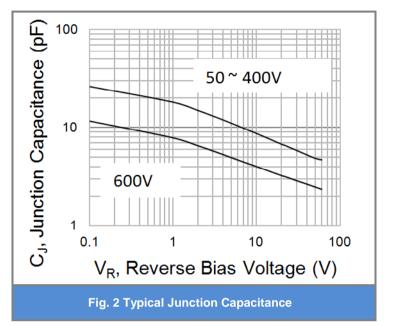


TYPICAL CHARACTERISTIC CURVES









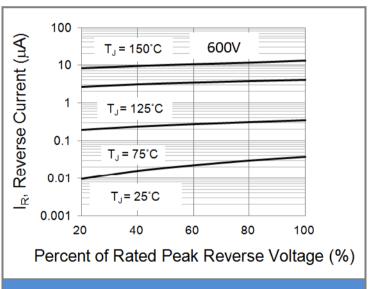
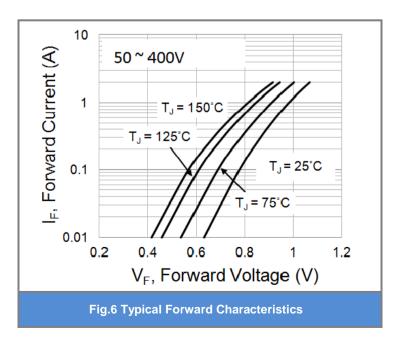


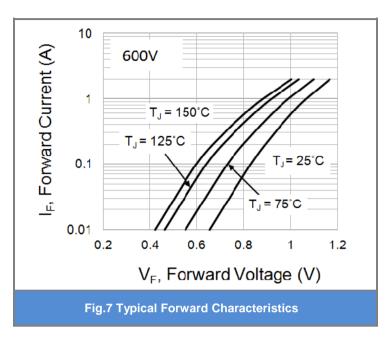
Fig.4 Typical Reverse Characteristics

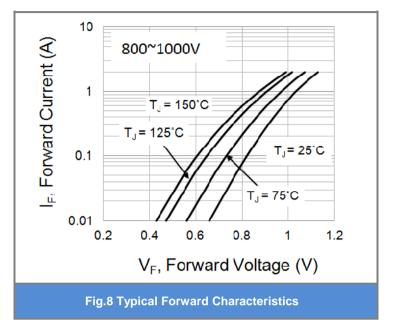




FR1AAFC ~ FR1MAFC Series

TYPICAL CHARACTERISTIC CURVES





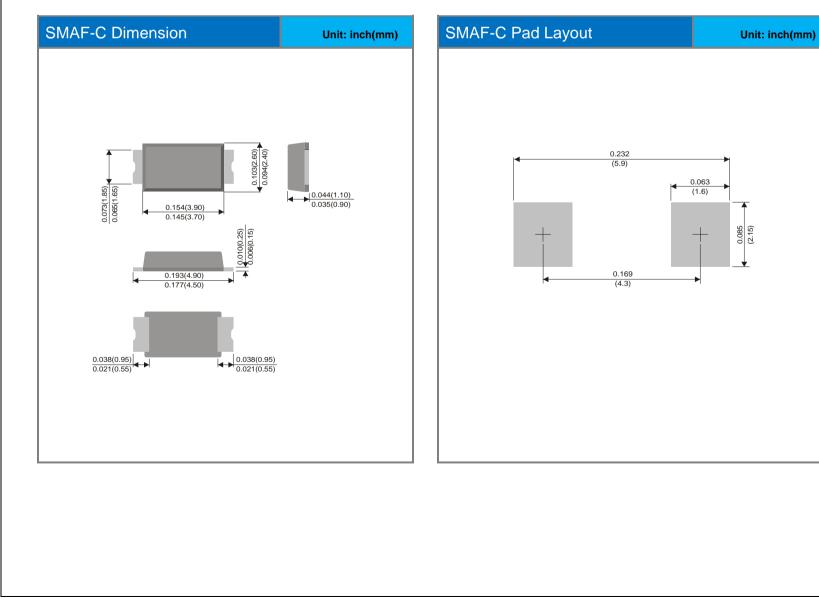


FR1AAFC ~ FR1MAFC Series

Part No. Packing Code Version

| Part No. Packing Code | Package Type | Packing Type | Marking | Version |
|-----------------------|--------------|------------------|---------|--------------|
| FR1AAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | FR1A | Halogen free |
| FR1BAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | FR1B | Halogen free |
| FR1DAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | FR1D | Halogen free |
| FR1GAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | FR1G | Halogen free |
| FR1JAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | FR1J | Halogen free |
| FR1KAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | FR1K | Halogen free |
| FR1MAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | FR1M | Halogen free |

Packaging Information & Mounting Pad Layout



- 27



FR1AAFC ~ FR1MAFC Series

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, noninfringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)