



ER2AF SERIES

SURFACE MOUNT SUPERFAST RECTIFIER

VOLTAGE 50-600 Volts **CURRENT** 2 Amperes

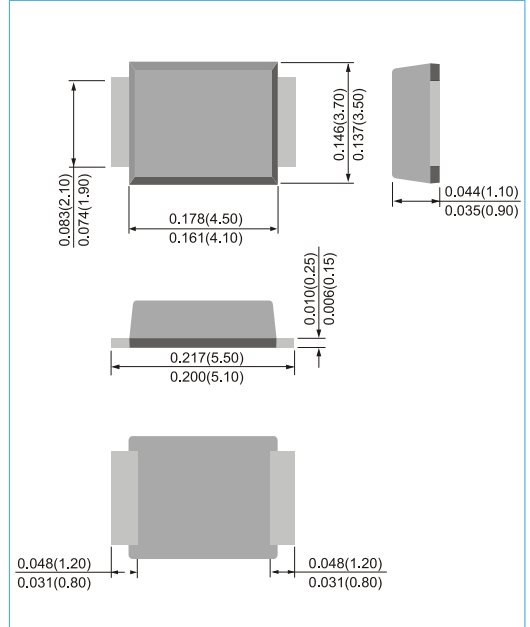
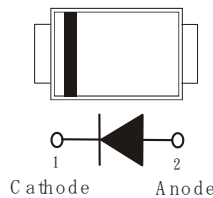
SMBF Unit : inch(mm)

FEATURES

- For surface mounted applications
- High temperature metallurgically bonded-no compression
- Built-in strain relief
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SMBF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0018 ounces, 0.05 grams
- Polarity : Color band denotes cathode end



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

| PARAMETER | SYMBOL | ER2AF | ER2BF | ER2CF | ER2DF | ER2EF | ER2GF | ER2JF | UNITS |
|---|--------------------------------------|-------------|-------|-------|-------|--------|-------|-------|-------|
| Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 150 | 200 | 300 | 400 | 600 | V |
| RMS Voltage | V _{RMS} | 35 | 70 | 105 | 140 | 210 | 280 | 420 | V |
| DC Blocking Voltage | V _R | 50 | 100 | 150 | 200 | 300 | 400 | 600 | V |
| Average Forward Current | I _{F(AV)} | 2.0 | | | | | | | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method) | I _{FSM} | 50 | | | | | | | A |
| Forward Voltage at 2.0A | V _F | 0.95 | | | 1.25 | | 1.7 | | V |
| DC Reverse Current at Rated DC Blocking Voltage T _J =25°C | I _R | 1 | | | | | | | μA |
| Typical Junction capacitance V _R =4V,f=1MHz | C _J | 30 | | | 20 | | | | pF |
| Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 2) | R _{θJL} R _{θJA} | 18 135 | | | | °C / W | | | |
| Reverse Recovery Time (I _F =0.5A, I _R =1.0A,I _{rr} =0.25A) | T _{rr} | 35 | | | | | | | ns |
| Operating Junction Temperature and Storage Temperature Range | T _J ,T _{STG} | -55 to +150 | | | | | | | °C |

NOTES : 1. Mounted on an FR4 PCB, single-sided copper, with 48cm² copper pad area
2. Mounted on an FR4 PCB, single-sided copper, mini pad.



ER2AF SERIES

RATING AND CHARACTERISTIC CURVES

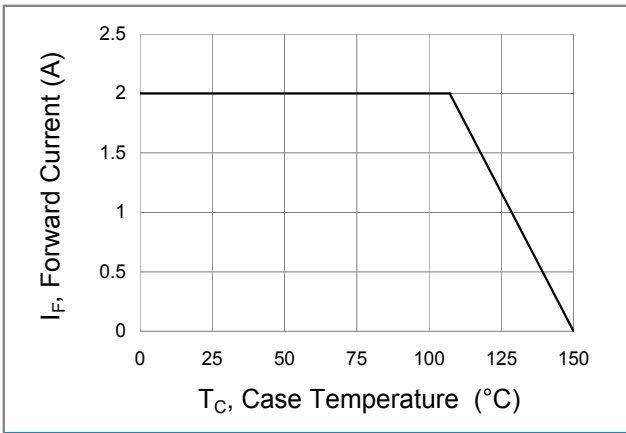


Fig.1 Forward Current Derating Curve

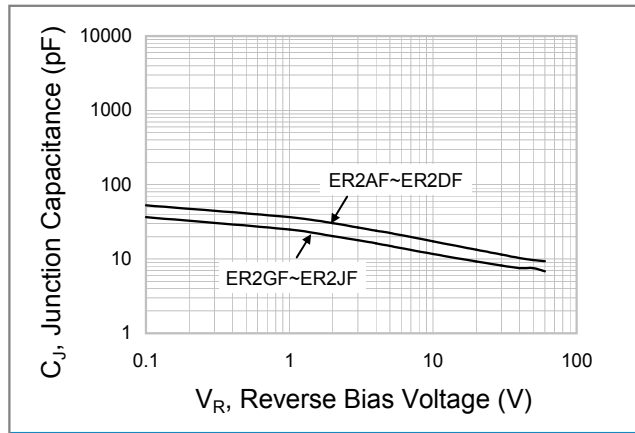


Fig.2 Typical Junction Capacitance

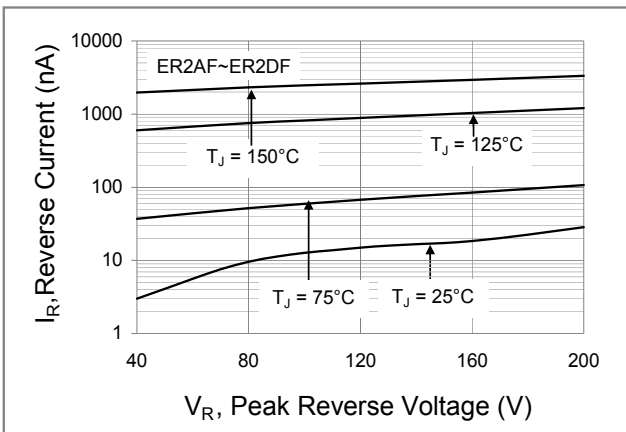


Fig.3 Typical Reverse Characteristics

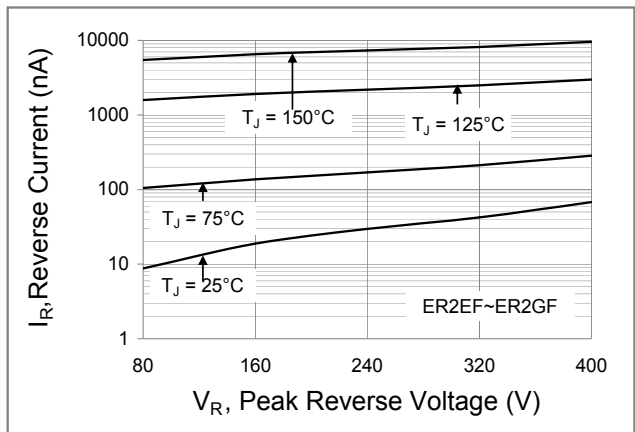


Fig.4 Typical Reverse Characteristics

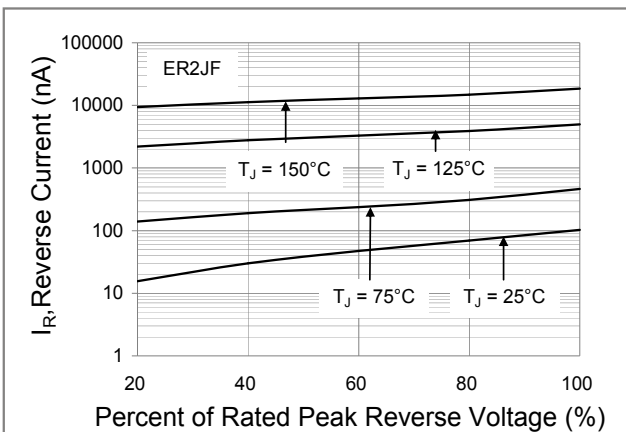


Fig.5 Typical Reverse Characteristics

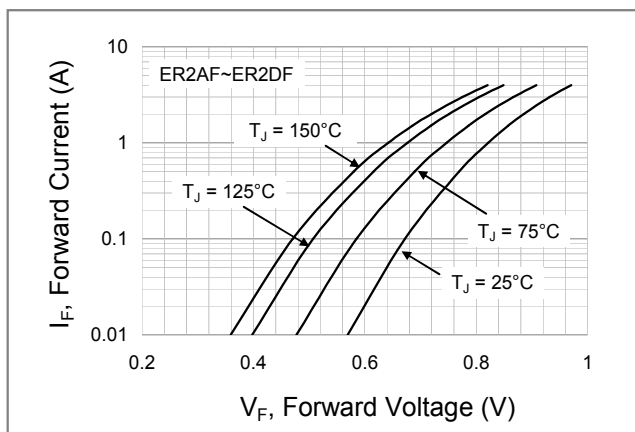


Fig.6 Typical Forward Characteristics



ER1AF SERIES

RATING AND CHARACTERISTIC CURVES

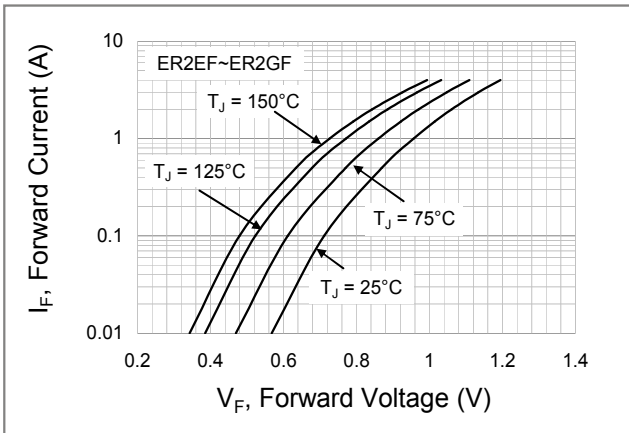


Fig.7 Typical Forward Characteristics

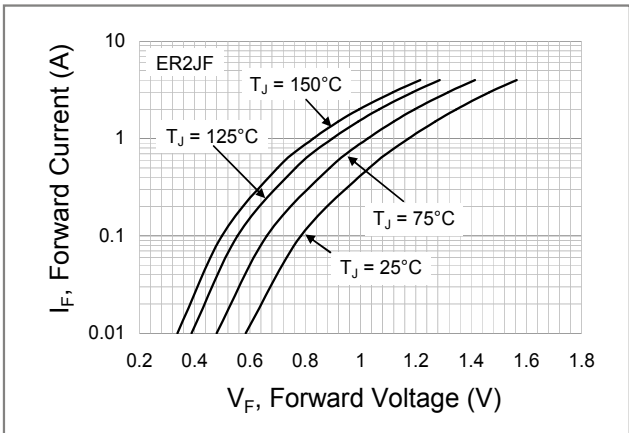
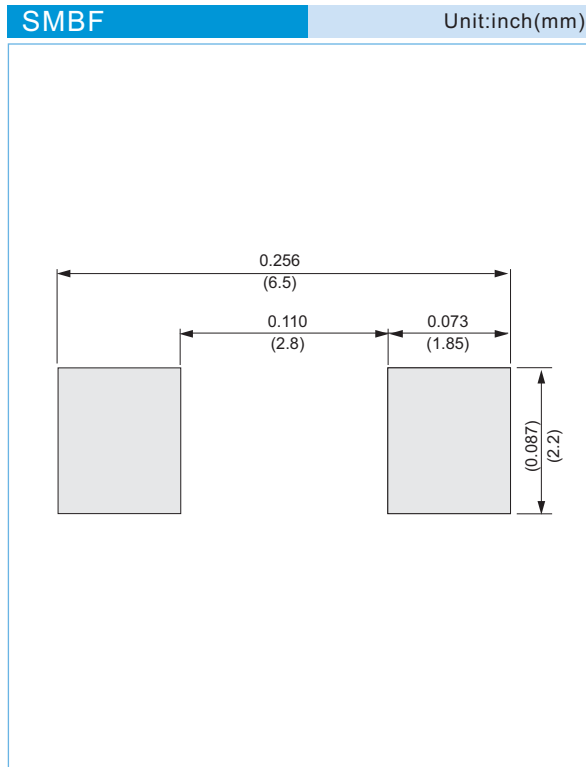


Fig.8 Typical Forward Characteristics



ER2AF SERIES

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 5K per 13" plastic Reel

LEGAL STATEMENT

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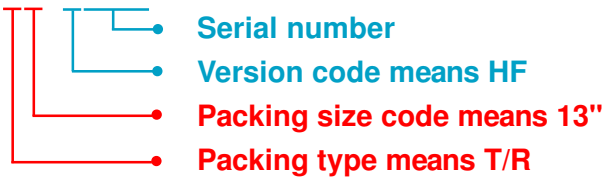


ER2AF SERIES

For example :

RB500V-40_**R2**_**00001**

Part No.



| 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 |
| T/B | A | N/A | 0 | HF | 0 | serial number |
| T/R | R | 7" | 1 | RoHS | 1 | serial number |
| B/P | B | 13" | 2 | | | |
| T/P | T | 26mm | X | | | |
| TRR | S | 52mm | Y | | | |
| TRL | L | PBCU | U | | | |
| FORMING | F | PBCD | D | | | |

Part No_packing code_Version

ER2AF_R1_00001

ER2AF_R2_00001