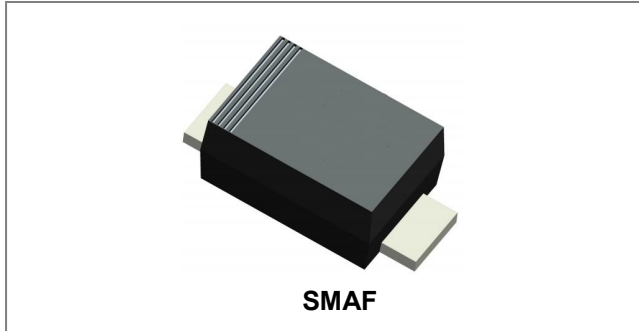




THE DATASHEET OF SS26AF



SS22AF THRU SS220AF SCHOTTKY RECTIFIER



Features

- Schottky Brier Chip
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 50A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: SMAF, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

| Type Number | Symbol | SS 22AF | SS 23AF | SS 24AF | SS 245AF | SS 25AF | SS 26AF | SS 28AF | SS 210AF | SS 215AF | SS 220AF | Units |
|---|---|-------------|---------|---------|----------|---------|-----------|---------|----------|----------|----------|-------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V _{RRM} V _{RWM} V _{DC} | 20 | 30 | 40 | 45 | 50 | 60 | 80 | 100 | 150 | 200 | V |
| RMS Reverse Voltage | V _{RMS} | 14 | 21 | 28 | 31 | 35 | 42 | 56 | 70 | 105 | 140 | V |
| Average forward rectified output current @T _A = 90°C | I _O | 2 | | | | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 50 | | | | | | | | | | A |
| Forward Voltage (per element) @I _F =2.0A | V _{FM} | 0.55 | | | 0.7 | | | 0.85 | | 0.92 | | V |
| Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C | I _{RM} | 0.1 10 | | | | | 0.05 5 | | | | | mA |
| Typical Junction Capacitance(per leg) (Note 1) | C _J | 28 | | | | | | | | | | pF |
| Typical Thermal Resistance (per leg) (Note 2) | R _{θJL} | 88 | | | | | | | | | | °C/W |
| Operating and Storage Temperature Range | T _J , T _{STG} | -55 to +150 | | | | | | | | | | °C |

Note: 1. V_R = 5V, T_C = 25 °C, f_{SIG} = 1MHz
2. mounted on P.C. Board with 5.0mm² copper pad areas.

Ratings and Characteristics Curves

Fig. 1 Forward Current Derating Curve

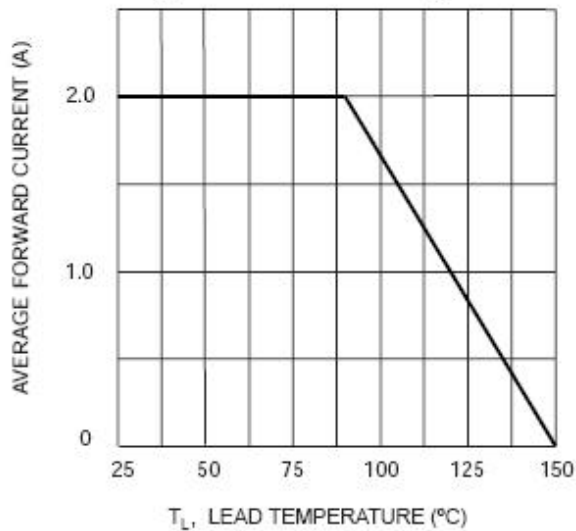


Fig. 2 Typ. Forward Characteristics

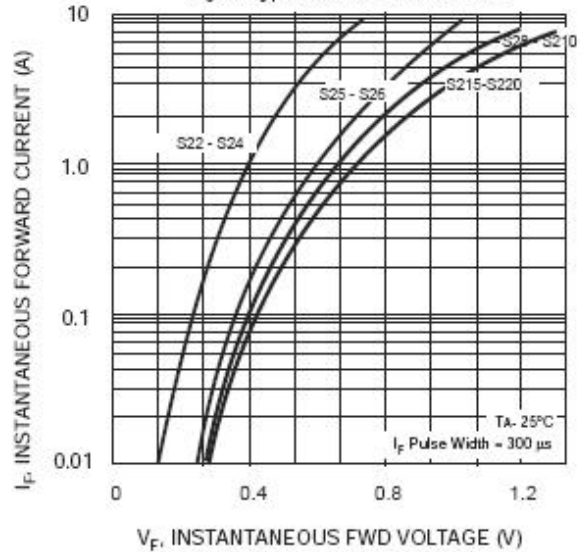


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

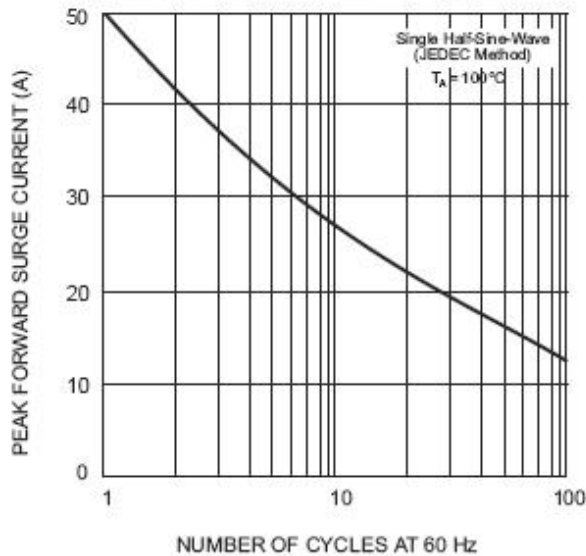
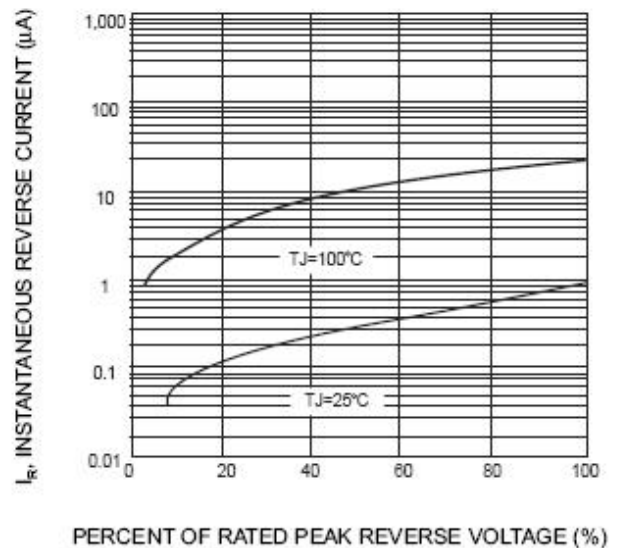
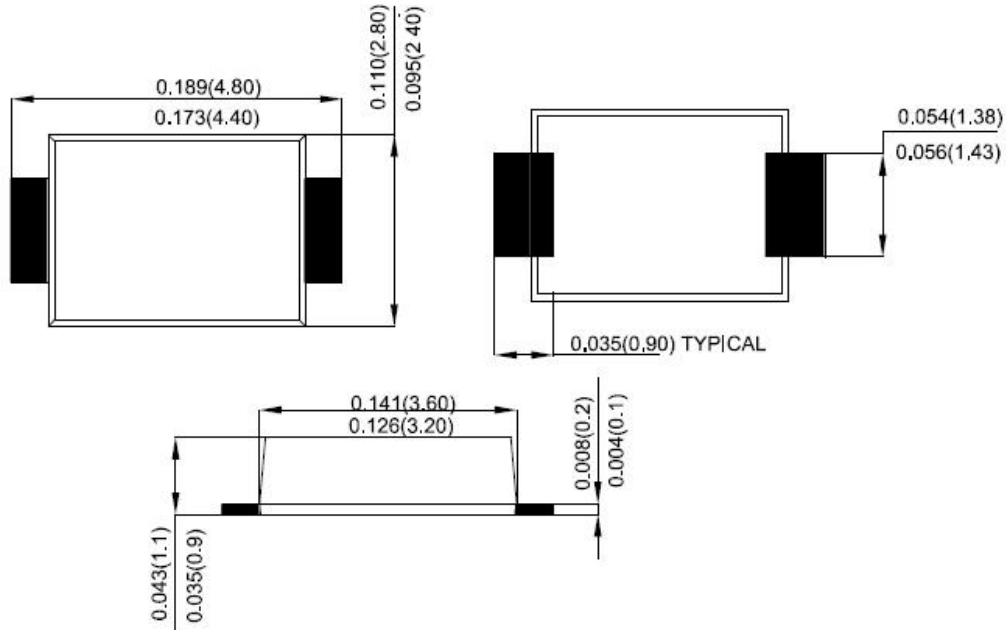


Fig. 4 Typical Reverse Characteristics (per element)



Mechanical Dimensions SMAF (Millimeters/Inches)



Ordering Information

| Device | Package | Shipping |
|------------------|----------------|----------------|
| SS22AF - SS220AF | SMAF (Pb-Free) | 3000pcs / reel |

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram

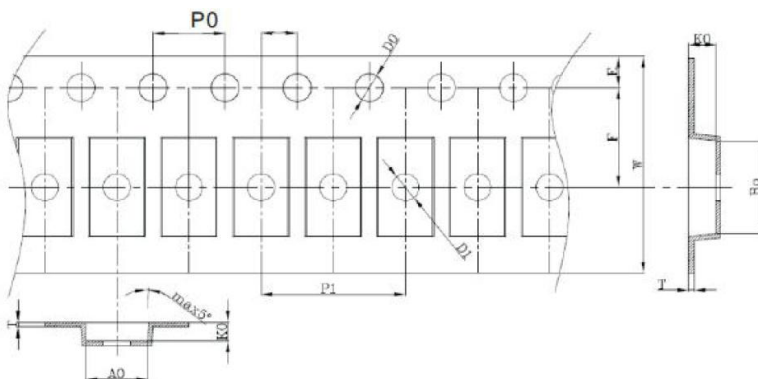


Where XXXXX is YYWWL

SS22AF = Part Name
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin
Epoxy resin UL:94V-0

Carrier Tape Specification SMAF



| SYMBOL | Millimeters | |
|--------|-------------|-------|
| | Min. | Max. |
| A0 | 2.83 | 3.03 |
| B0 | 2.23 | 5.43 |
| K0 | 1.23 | 1.43 |
| P0 | 3.90 | 4.10 |
| P1 | 3.90 | 4.10 |
| P2 | 1.90 | 2.10 |
| T | 0.17 | 0.23 |
| E | 1.63 | 1.83 |
| F | 5.45 | 5.65 |
| D0 | 1.50 | 1.60 |
| D1 | 1.45 | 1.55 |
| W | 11.70 | 12.30 |



SS22AF
THRU
SS220AF

Technical Data
Data Sheet N2084, Rev. -





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