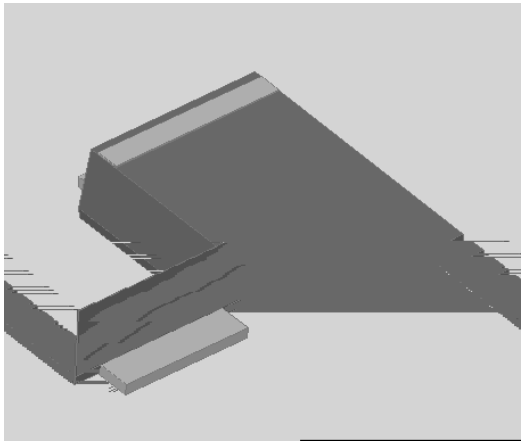
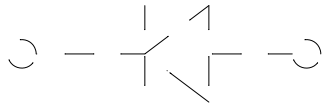
# U2DF

RoHS
COMPLIANT





## Typical Applications

For use in high frequency rectification of power,supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

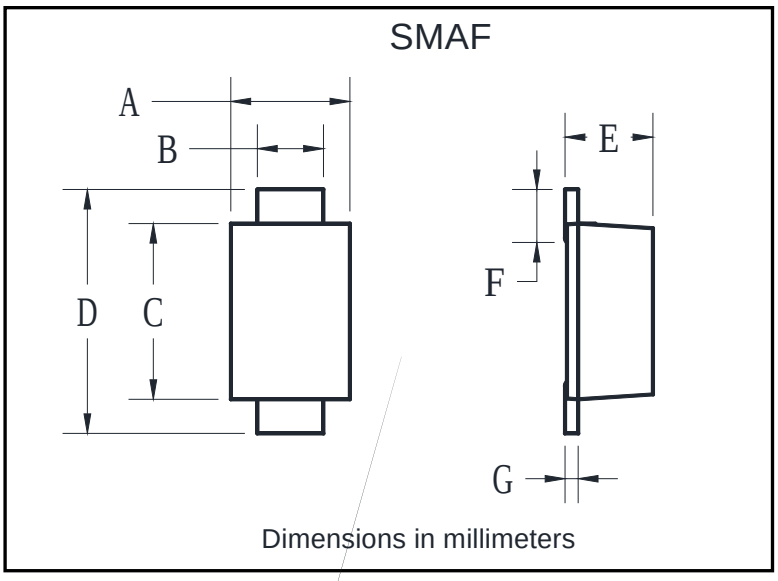
## Mechanical Data

- **Package**: SMAF
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B

| PARAMETER | SYMBOL | UNIT | U2DF |
|---|---|---|---|
| Device marking code | | | U2DF |
| Maximum Repetitive Peak Reverse Voltage | $V_{RRM}$ | V | 200 |
| Maximum RMS Voltage | $V_{RMS}$ | V | 140 |
| Maximum DC blocking Voltage | $V_{DC}$ | V | 200 |
| Average rectified output current<br>@60Hz sine wave, resistance load, TL (Fig.1) | $I_O$ | A | 2.0 |
| Forward Surge Current (Non-repetitive)<br>@60Hz Half-sine wave,1 cycle, Tj=25 | $I_{FSM}$ | A | 65 |
| Forward Surge Current (Non-repetitive)<br>@1ms, square wave, 1 cycle, Tj=25 | | | 130 |
| Current squared time<br>@1ms≤t≤8.3ms Tj=25 | $I^2t$ | $A^2s$ | 17.53 |
| Storage temperature | $T_{stg}$ | | -55 ~ +175 |
| Junction temperature | Tj | | -55 ~ +175 |

■■

## ■ Outline Dimensions




| SMAF | | |
|---|---|---|
| Dim | Min | Max |
| A | 2.40 | 2.80 |
| B | 1.35 | 1.45 |
| C | 3.40 | 3.60 |
| D | 4.40 | 4.80 |
| E | 1.05 | 1.25 |
| F | 0.50 | 1.00 |
| G | 0.15 | 0.22 |

## ■ Suggested pad layout

| SMAF | |
|---|---|
| Dim | Millimeters |
| P1 | 6.50 |
| P2 | 4.00 |
| P3 | 1.50 |
| Q1 | 2.50 |
| Q2 | 1.70 |

Dimensions in millimeters