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|---|---|
| SURFACE MOUNT ULTRA FAST RECTIFIER  | Reverse Voltage - 50 to 1000 Volts<br>Forward Current -2.0 Ampere   |
| <p style="text-align: center;"><b>SMAF</b></p> <p style="text-align: center;"><i>Dimensions in inches and (millimeters)</i></p> | <p><b>Features</b></p> <ul style="list-style-type: none"> <li>◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>◆ Idea for printed circuit board</li> <li>◆ Glass passivated Junction chip</li> <li>◆ Low reverse leakage</li> <li>◆ High forward surge current capability</li> <li>◆ High temperature soldering guaranteed<br/>250°C/10 seconds at terminals</li> </ul> <p><b>Mechanical Data</b></p> <p><b>Case</b> : Molded plastic body<br/> <b>Terminals</b> : Solder plated, solderable per MIL-STD-750, Method 2026<br/> <b>Polarity</b> : Polarity symbol marking on body<br/> <b>Mounting Position</b> : Any<br/> <b>Weight</b> : 0.0014 ounce, 0.038 grams</p> |

## Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| Parameter  | SYMBOLS        | US2AF       | US2BF | US2DF | US2GF | US2JF | US2KF | US2MF | UNITS        |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|--------------|
| Maximum repetitive 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 forward rectified current at $T_L=100^\circ C$                             | $I_{(AV)}$     | 2.0         |       |       |       |       |       |       | A            |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load         | $I_{FSM}$      | 50.0        |       |       |       |       |       |       | A            |
| Maximum instantaneous forward voltage at 2.0A  | $V_F$          | 1.0         |       | 1.4   |       | 1.7   |       |       | V            |
| Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=125^\circ C$ | $I_R$          | 5.0<br>500  |       |       |       |       |       |       | $\mu A$      |
| Maximum reverse recovery time(Note 1)  | $T_{rr}$       | 50          |       |       |       | 75    |       |       | ns           |
| Typical junction capacitance (Note2)   | $C_J$          | 50.0        |       |       |       |       |       |       | pF           |
| Typical thermal resistance   | $R_{qJA}$      | 70.0        |       |       |       |       |       |       | $^\circ C/W$ |
| Operating junction and storage temperature range   | $T_J, T_{STG}$ | -55 to +150 |       |       |       |       |       |       | $^\circ C$   |

**Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

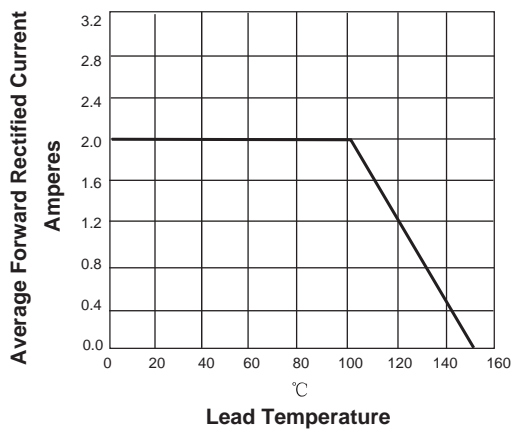


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

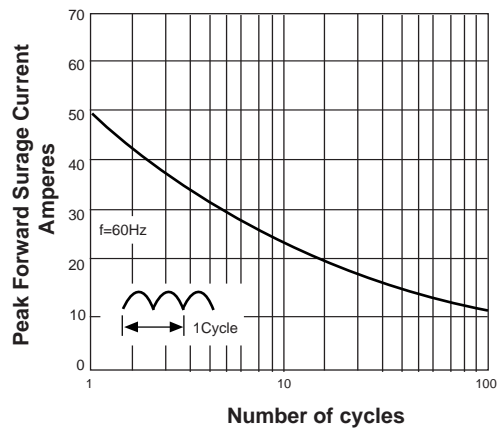


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

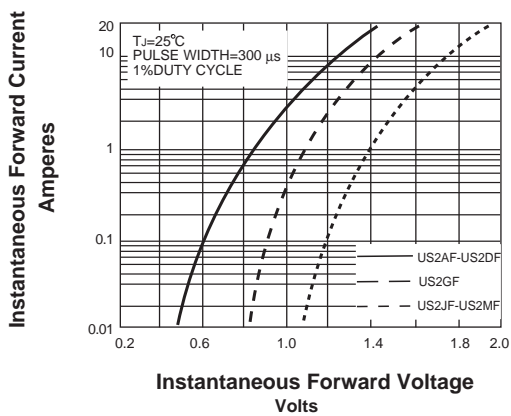
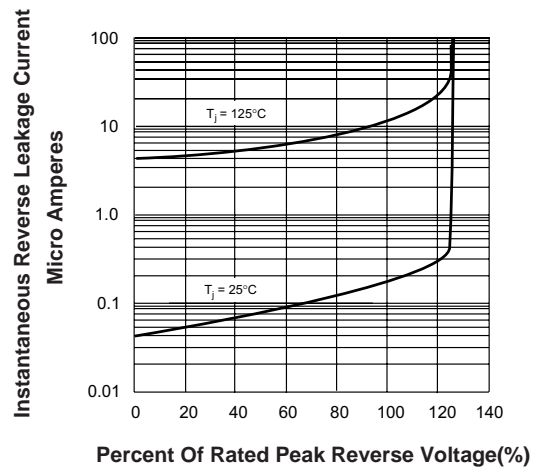


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)