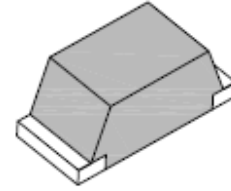


Surface Mount Super Fast Recovery Rectifier

Features

- Low leakage current
- For surface mounted applications
- Epoxy Molding Compound has UL Flammability Classification 94V-0



MFP

Mechanical Data

| | |
|---------------------------|--|
| Case: | MFP / MINI-SMA, Molded plastic body |
| Terminals: | Solder plated, solderable per MIL-STD-750, Method 2026 |
| Polarity: | Indicated by cathode band |
| Mounting Position: | Any |
| Weight: | 0.04 gram |

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

| Symbol | Description | MFPU 1S | MFPU 2S | MFPU 3S | MFPU 4S | MFPU 5S | MFPU 6S | Unit | Conditions |
|----------------|--|-------------|---------|---------|---------|---------|---------|-----------------------------|---|
| | Marking Code | U1 | U2 | U3 | U4 | U5 | U6 | | |
| VRRM | Max. Repetitive Peak Reverse Voltage | 50 | 100 | 150 | 200 | 300 | 400 | V | |
| VRMS | Max. RMS Voltage | 35 | 70 | 105 | 140 | 210 | 280 | V | |
| IF(AV) | Average Forward Rectified Current | 1.0 | | | | | | A | $T_A=50^\circ\text{C}$ |
| IFSM | Peak Forward Surge Current | 30 | | | | | | A | |
| VF | Max. Forward Voltage | 0.95 | | | 1.25 | | | V | $I_F=1.0\text{A}$ |
| IR | Reverse Current @ $V_R = V_{RRM}$ | 5.0 | | | | | | μA | $T_A=25^\circ\text{C}$ |
| | | 100 | | | | | | μA | $T_A=100^\circ\text{C}$ |
| Trr | Max. Reverse Recovery Time | 35 | | | | | | ns | $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$. |
| RthJA | Thermal Resistance | 42 | | | | | | $^\circ\text{C} / \text{W}$ | Junction to ambient |
| CJ | Diode Junction Capacitance | 10 | | | | | | pF | $F=1\text{MHz}$ and $V_R=4\text{V}$ |
| TJ,TSTG | Operating Junction and Storage Temperature Range | -55 to +150 | | | | | | $^\circ\text{C}$ | |

Surface Mount Super Fast Recovery Rectifier

MFPU1S - MFPU6S

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

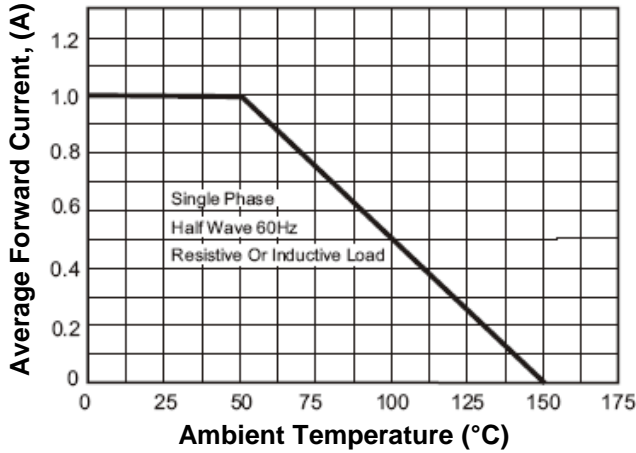


Fig.2- Maximum Non-Repetitive Forward Surge Current

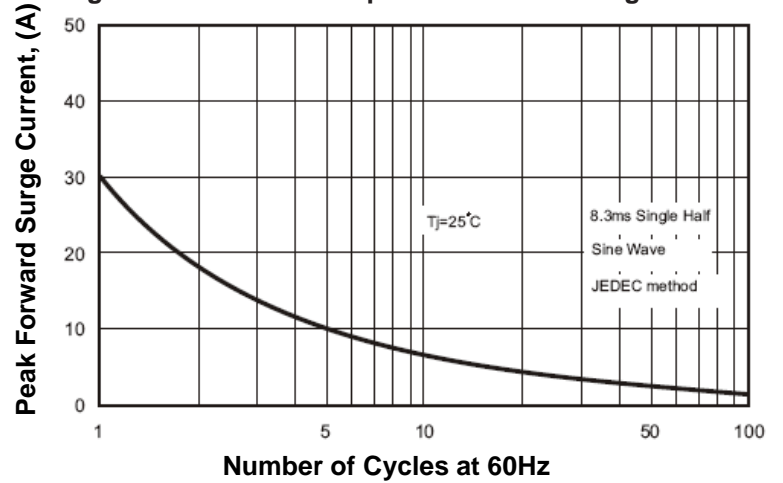


Fig.3- Typical Forward Characteristics

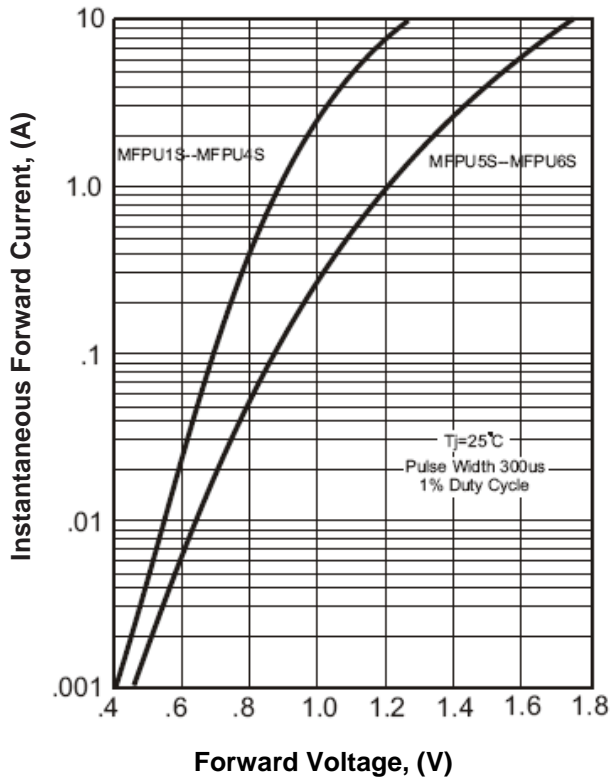
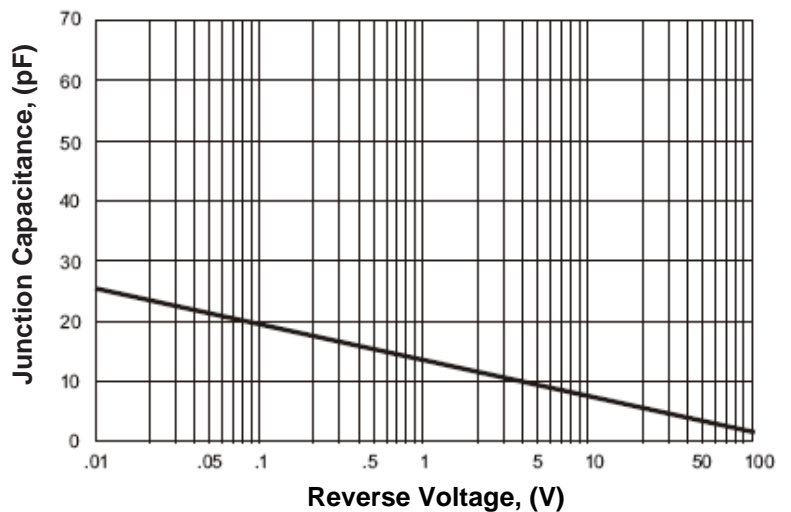


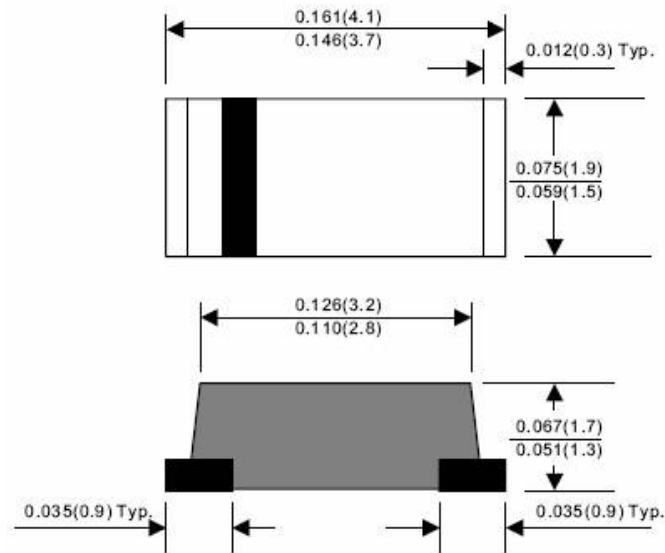
Fig.4- Typical Junction Capacitance



Surface Mount Super Fast Recovery Rectifier

MFPU1S - MFPU6S

Dimensions in inches (mm)



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