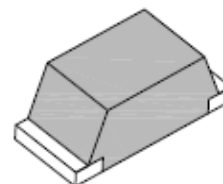


Surface Mount Fast Recovery Rectifier

Features

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



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 | MFPR 05S | MFPR 1S | MFPR 2S | MFPR 4S | MFPR 6S | MFPR 8S | MFPR 10S | Unit | Conditions | |
|--------------------------------------|---|-------------|------------|------------|------------|------------|------------|-------------|------|--|--------------------------------|
| V_{RRM} | Max. Repetitive Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | | |
| V_{RMS} | Max. RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V | | |
| V_F | Max. Forward Voltage | 1.2 | | | | | | | | V | |
| I_{F(AV)} | Average Forward Rectified Current | 1.0 | | | | | | | | A | See Fig.1 |
| I_{FSM} | Peak Forward Surge Current | 30 | | | | | | | | A | |
| I_R | Reverse Current @ V _R = V _{RRM} | 5.0 | | | | | | | | uA | T _A = 25°C |
| | | 100 | | | | | | | | uA | T _A = 100°C |
| T_{rr} | Max. Reverse Recovery Time | 150 | | | 250 | | 500 | | V | I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A. | |
| R_{thJA} | Thermal Resistance | 42 | | | | | | | | °C / W | Junction to ambient |
| C_J | Diode Junction Capacitance | 15 | | | | | | | | pF | F=1MHz and V _R = 4V |
| T_J,T_{STG} | Operating Junction and Storage Temperature Range | -55 to +150 | | | | | | | | °C | |

Surface Mount Fast Recovery Rectifier

MFPR05S - MFPR10S

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

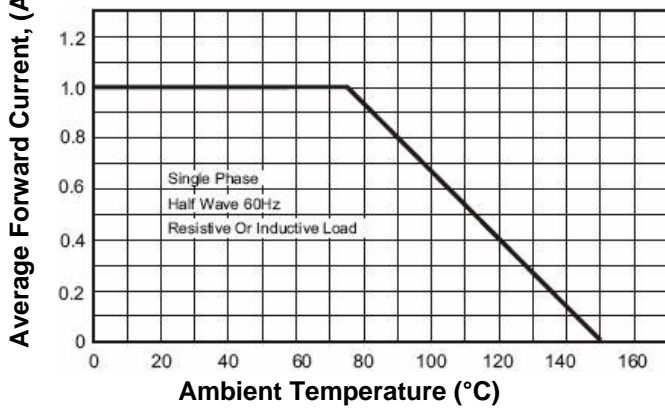


Fig.3- Typical Forward Characteristics

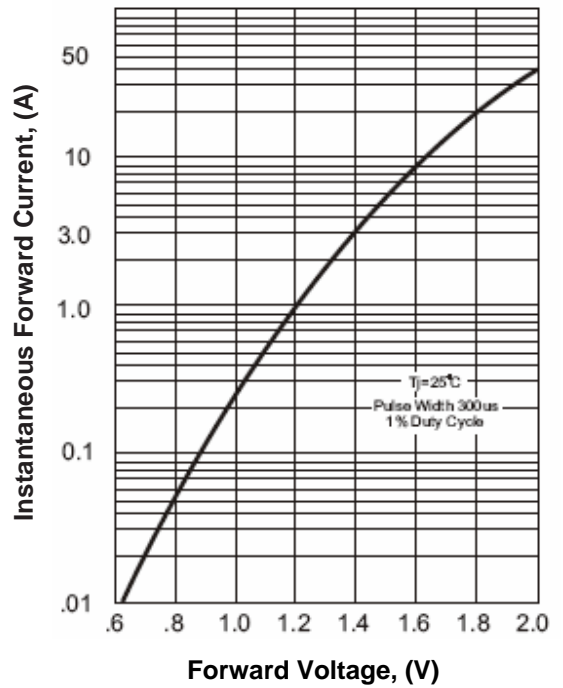


Fig.2- Maximum Non-Repetitive Forward Surge Current

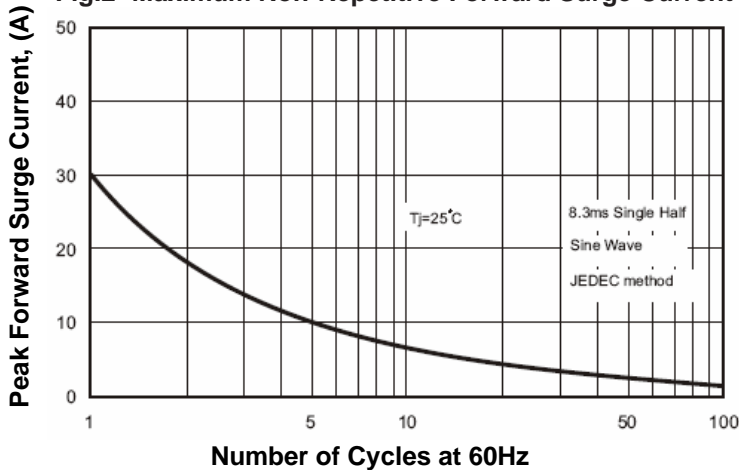
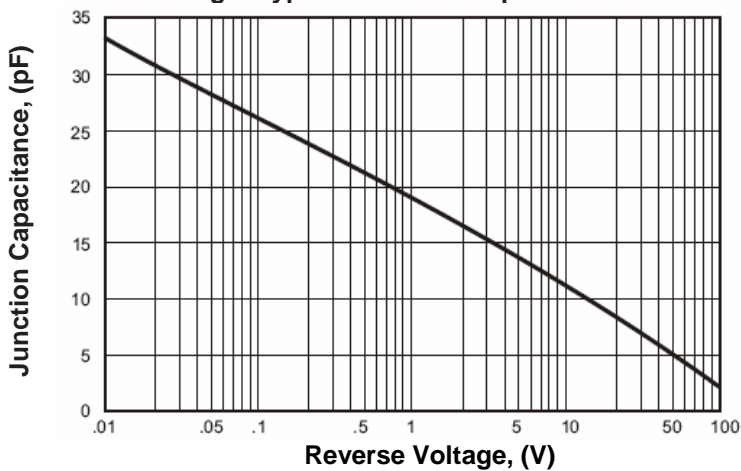


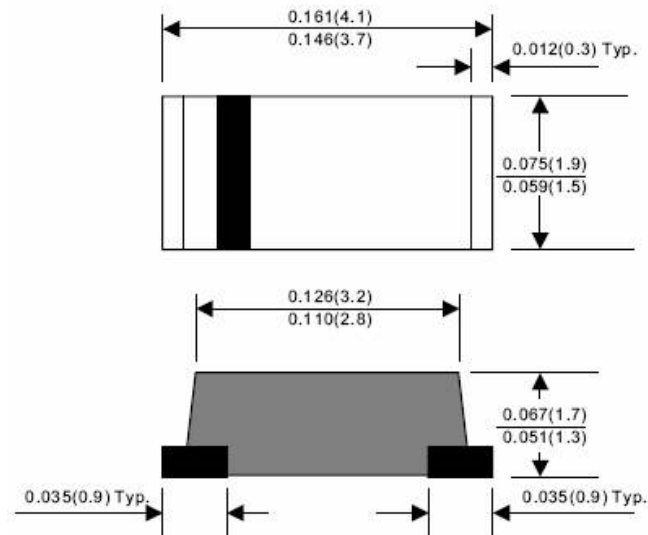
Fig.4-Typical Junction Capacitance



Surface Mount Fast Recovery Rectifier

MFPR05S - MFPR10S

Dimensions in inches (mm)



How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 247-2232 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.

42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

CROSS REGION PLAZA, 899 LINGLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931