

UF1A THRU UF1M

SURFACE MOUNT FAST RECOVERY RECTIFIER

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
 Ultra fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body

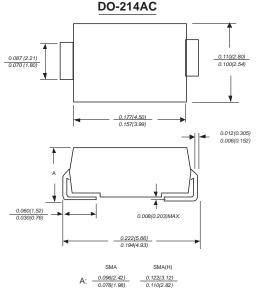
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.138 grams



Dimensions in inches and (millimeters)

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%.

| | SYMBOLS | UF1A | UF1B | UF1D | UF1G | UF1J | UF1K | UF1M | UNITS |
|--|---------|-------------|------|------|-------------|--------------|-------|-------|-------|
| Maximum repetitive peak reverse voltage | Vrrm | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | VDC | 50 | 100 | 200 | 400 | 600 800 1000 | | VOLTS | |
| Maximum average forward rectified current at TL=55°C | l(AV) | 1.0 | | | Amp | | | | |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | Іғѕм | | | | 30.0 | | | | Amps |
| Maximum instantaneous forward voltage at 1.0A | VF | | 1.0 | | 1.4 1.7 | | Volts | | |
| Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃ | lR | | | | 5.0 50.0 | | | | uA |
| Maximum reverse recovery time (NOTE 1) | trr | | 50 |) | | | 75 | | ns |
| Typical junction capacitance (NOTE 2) | Cı | 15.0 | | pF | | | | | |
| Typical thermal resistance (NOTE 3) | RqJA | 50.0 | | °C/W | | | | | |
| Operating junction and storage temperature range | ТЈ,Тѕтс | -65 to +150 | | | °C | | | | |

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas