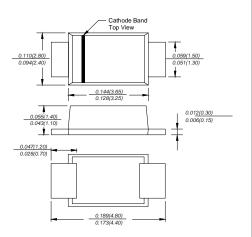


M1 THRU M7

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

SMAF



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Glass passivated chip junction

MECHANICAL DATA

Case: JEDEC SMAF molded plastic body over passivated chip **Terminals**: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0018 ounce, 0.064 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

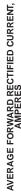
Ratings at 25°C ambient temperature unless otherwise specified.

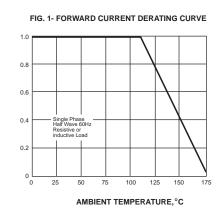
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| YXW Catalog Number | SYMBOLS | M1F | M2F | мзғ | M4F | M5F | M6F | M7F | 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=75°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 | 1.1 | | | | | | | Volts |
| Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃ | lR | 5.0 50.0 | | | | | | | μΑ |
| Typical junction capacitance (NOTE 1) | Сı | 15.0 | | | | | | | pF |
| Typical thermal resistance (NOTE 2) | RθJA | 75.0 | | | | | | | °C/W |
| Operating junction and storage temperature range | Тл,Тѕтс | -50 to +150 | | | | | | | °C |

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES M1F THRU M7F







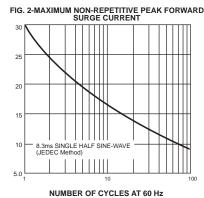
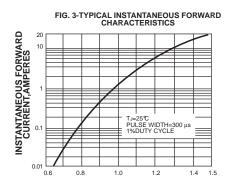
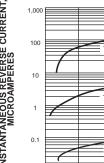
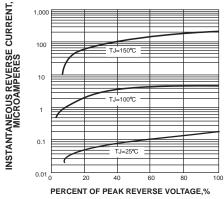


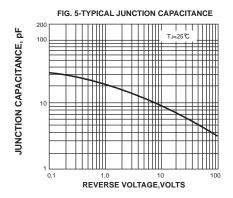
FIG. 4-TYPICAL REVERSE CHARACTERISTICS

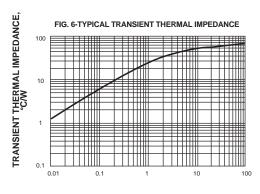












t, PULSE DURATION, sec.