WUXI XUYANG ELECTRONICS CO., LTD.

M1 THRU M7 SURFACE MOUNT RECTIFIER

TECHNICAL SPECIFICATION

VOLTAGE: 50 TO 1000V CURRENT: 1.0A

FEATURES

- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- Open junction chip,silastic passivated
- High temperature soldering guaranteed: 260°C/10sec/at terminal

MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O
 - recognized flame retardant epoxy
- Polarity: Color band denotes cathode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

| SYMBOL V _{RRM} | M1 50 | M2 | М3 | Μ4 | M5 | M6 | M7 | UNITS |
|----------------------------|--|---|-----|--|--|--|--|--|
| | 50 | | | | | | | |
| V | 00 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| I _{F(AV)} | 1.0 | | | | | | А | |
| I _{FSM} | 30 | | | | | | А | |
| V _F | 1.1 | | | | | | V | |
| | 5.0 | | | | | | | μA |
| IR | 200 | | | | | | | μA |
| CJ | 15 | | | | | | pF | |
| R _θ (ja) | 27 | | | | | | °C/W | |
| T_{STG},T_{J} | -65 to +150 | | | | | | °C | |
| | $I_{F(AV)}$ I_{FSM} V_{F} I_{R} C_{J} $R_{\theta}(ja)$ | $V_{DC} = 50$ $I_{F(AV)} = 10$ $V_{F} = 10$ $I_{R} = 10$ $C_{J} = 10$ $R_{\theta}(ja) = 10$ | | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |

1.Measured at 1.0 MHz and applied voltage of $4.0V_{dc}$

2. Thermal resistance from junction to terminal mounted on 5x5mm copper pad area

http://www.china-diode.com



