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%)

RATINGS	SYMBOL	M1	M2	М3	M4	М5	M6	M7	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		1.0							A
(T _L =100°C)	I _{F(AV)}								
Peak Forward Surge Current (8.3ms single	I _{FSM}	30							А
half sine-wave superimposed on rated load)	·FSM								~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Maximum Instantaneous Forward Voltage	V _F	1.1							V
(at rated forward current)	*F								v
Maximum DC Reverse Current $T_a=2$	5°C	5.0							μΑ
(at rated DC blocking voltage) T _a =12	5°C I _R	200							μA
Typical Junction Capacitance (Not	e 1) C _J	C _J 15						pF	
Typical Thermal Resistance (Not	e 2) R _θ (ja)	27						°C/W	
Storage and Operation Junction Temperature	T _{STG} ,T _J	-65 to +150							°C
Note: 1.Measured at 1.0 MHz and applied voltage	ne of 4.0V _{do}								

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

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

