# M1 THRU M7

SURFACE MOUNT GENERAL PURPOSE PLASTIC RECTIFIER VOLTAGE: 50 to 1000V CURRENT: 1.0A



## FEATURE

Low cost Diffuesd junction Low Leakage Low forward voltage drop High currernt capability

# **MECHANICAL DATA**

Terminal: Plated axial leads solderable per MIL-STD 750, method 2026
Case: Molded with UL-94 class V-0 recognized Flame Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any
Weight: 0.093grams
Marking: M1 M2 M3 M4 M5 M6 M7



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	M1	M2	M3	M4	M5	M6	M7	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at T <sub>L</sub> =110°C	lf(av)	1.0							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	30.0							А
Maximum Instantaneous Forward Voltage at rated forward current	Vf	1.1							V
Maximum DC Reverse CurrentTa =25°Cat rated DC blocking voltageTa =100°C	lr	5.0 50.0							μA
Typical Junction Capacitance (Note 1)	Cj	15.0							pF
Typical Thermal Resistance (Note 2)	Rth(ja)	75.0							°C /W
Operating Junction Temperature Range	Tj			-{	55 to +12	5			°C
Storage Temperature Range	Tstg	-55 to +150							°C
Noto:									

Note

1. Measured at 1.0 MHZ and applied reverse voltage of 4.0Vdc

2. Thermal Resistance from Junction toAmbient



#### **RATINGS AND CHARACTERISTIC CURVES M1 THRU M7**

Rev.A1

3.0

1.0

1.0

10

REVERSE VOLTAGE / VOLTS

100