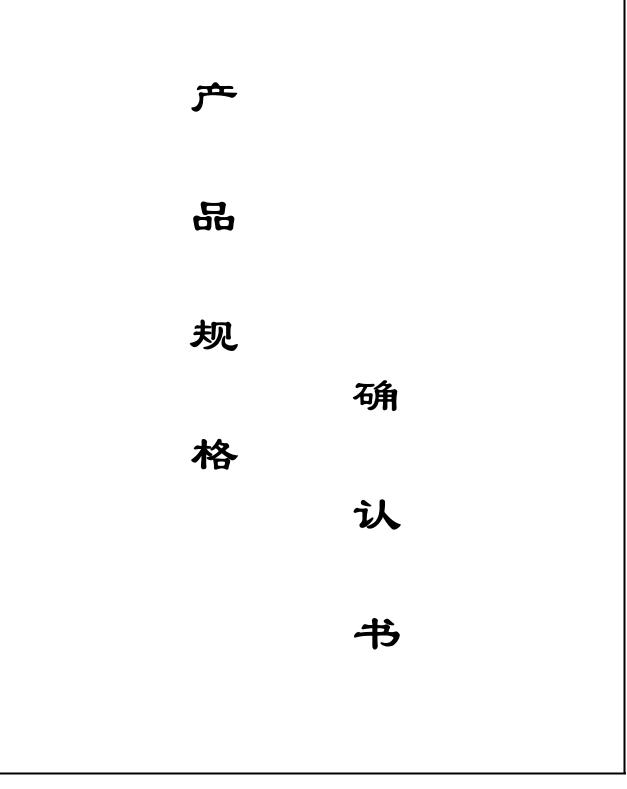
# **MXF SERIES**

SURFACE MOUNT GENERAL PURPOSE RECTIFIERS

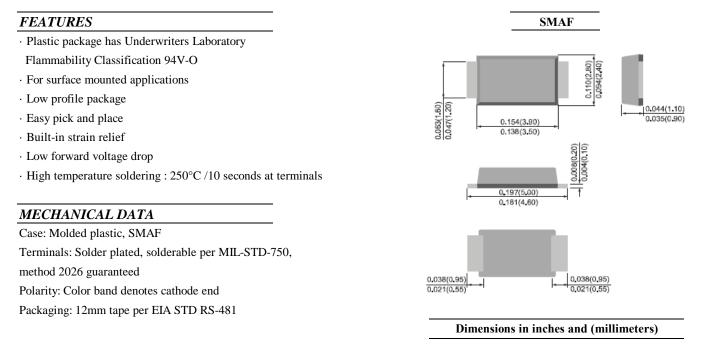


## M1F THRU M7F

### SURFACE MOUNT GENERAL PURPOSE RECTIFIERS

#### REVERSE VOLTAGE: FORWARD CURRENT:

#### 50 to 1000 VOLTS 1.0 AMPERE



#### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave,  $60H_Z$ , resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	M1F	M2F	M3F	M4F	M5F	M6F	M7F	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I <sub>(AV)</sub>	1.0							Amp
Peak Forward Surge Current,8.3ms single half-sine- wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30							Amp
Maximum Forward Voltage at 1.0A	V <sub>F</sub>	1.1							Volts
Maximum Reverse Current at at T <sub>A</sub> =25°C	т	5.0							μАтр
Rated DC Blocking Voltage T <sub>A</sub> =125°C	I <sub>R</sub>	100							
Typical Junction Capacitance (Note 1)	CJ	7							pF
Typical Thermal Resistance (Note 2)	R <sub>0JA</sub>	83							°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150							Ċ
Storage Temperature Range	Tstg	-55 to +150							°C

#### NOTES:

1- Measured at 1  $\ensuremath{\text{MH}}_Z$  and applied reverse voltage of 4.0 VDC.

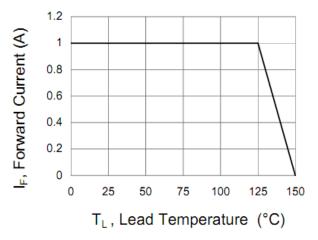
2- Thermal resistance from junction to ambient mounted on P.C.B. with 0.3 x 0.3" (8.0 x 8.0mm) copper pad areas

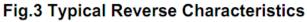


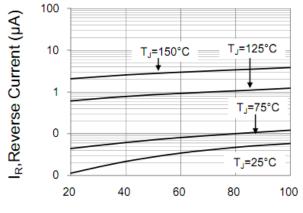
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#### **RATINGS AND CHARACTERISTIC CURVES**

#### Fig.1 Forward Current Derating Curve







Percent of Rated Peak Reverse Voltage (%)

Fig.2 Typical Junction Capacitance

