

### M1F THRU M7F

#### SURFACE MOUNT GENERAL RECTIFIER

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

#### **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:** SMAF molded plastic body over passivated chip **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026

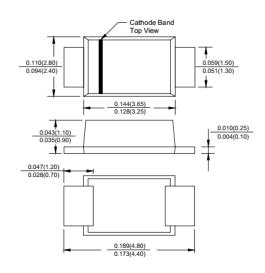
Nietriou 2020

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0014 ounce, 0.038 grams

#### **SMAF**



Dimensions in inches and (millimeters)

#### 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%.

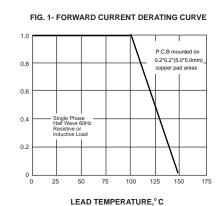
	SYMBOLS	M1F	M2F	M3F	M4F	M5F	M6F	M7F	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL =100℃	l(AV)	1.0							А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	lfsm	30.0							А
Maximum instantaneous forward voltage at 1.0A	VF	1.0							V
Maximum DC reverse current TA=25℃ at rated DC blocking voltage TA=125℃	lR	5.0 100.0						μΑ	
Typical junction capacitance (NOTE 1)	Cı	15.0						pF	
Typical thermal resistance (NOTE 2)	RθJA	88.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 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

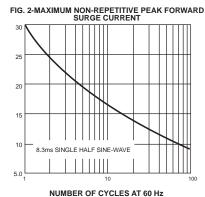


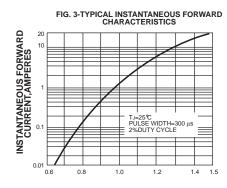
### RATINGS AND CHARACTERISTIC CURVES M1F THRU M7F

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

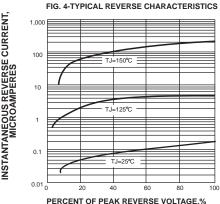




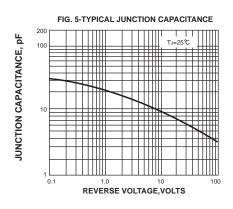


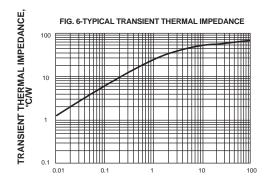


INSTANTANEOUS REVERSE CURRENT, MICROAMPERES



INSTANTANEOUS FORWARD VOLTAGE,





t,PULSE DURATION,sec.

# 单击下面可查看定价,库存,交付和生命周期等信息

# >>ZG(中鑫半导体)