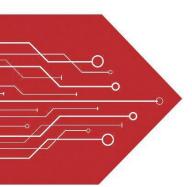
# MSKSEMI















**ESD** 

TVS

**TSS** 

MOV

**GDT** 

**PLED** 

Broduct data sheet



Semiconductor

#### **SMAF**

### **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

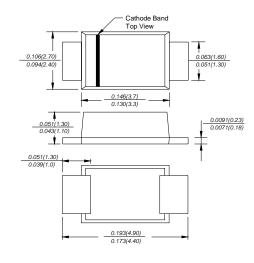
#### **MECHANICAL DATA**

**Case**: JEDEC SMAF molded plastic body over passivated chip **Terminals**: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end Mounting Position: Any

Weight: 0.0018 ounce, 0.064 grams



#### **REEL SPECIFICATION**

P/N	PKG	QTY
M1F THRU M7F	SMAF	3000

#### **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%.

MDD Catalog Number		M1F	M2F	M3F	M4F	M5F	M6F	M7F	UNITS
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage		50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=75°C		1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm				30.0				Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.1							Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	5.0 50.0							μА
Typical junction capacitance (NOTE 1)		15.0							pF
Typical thermal resistance (NOTE 2)		75.0							°C/W
Operating junction and storage temperature range		-50 to +150							°C

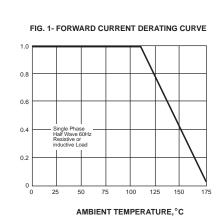
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

M1F THRU M7F

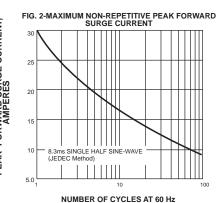


#### RATINGS AND CHARACTERISTIC CURVES M1F THRU M7F

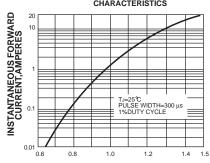


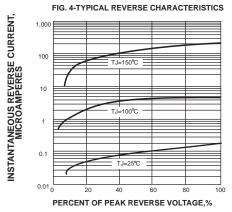




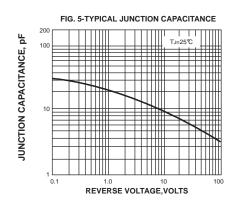


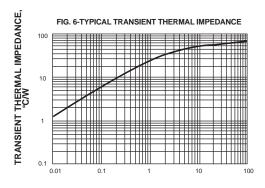






## INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.



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