

Product data sheet

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Semiconductor Compiance

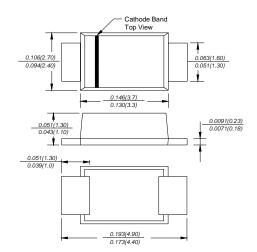
SMAF

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)	Ifsm				30.0				Amps
Maximum instantaneous forward voltage at 1.0A	Vf	1.1						Volts	
Maximum DC reverse currentTa=25°Cat rated DC blocking voltageTa=100°C	lĸ	5.0 50.0			μA				
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.

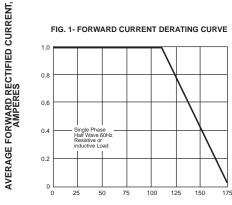
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



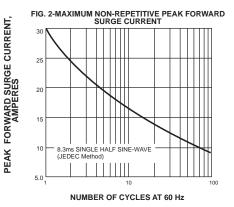


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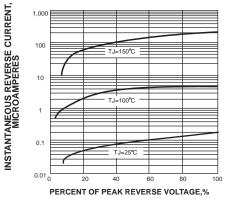
RATINGS AND CHARACTERISTIC CURVES M1F THRU M7F

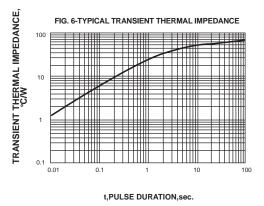




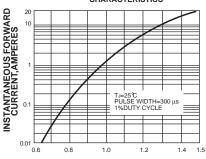


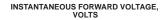


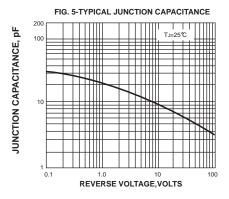
















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