

M1 THRU M7 AND S1A THRU S1M

SURFACE MOUNT GENERAL RECTIFIER

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

0.110(2.80) 0.051 (1.30) 0.051 (1.30) 0.05(2.42) 0.06(1.52) 0.060(1.52) 0.060(1.52) 0.060(1.52)

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: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 grams

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

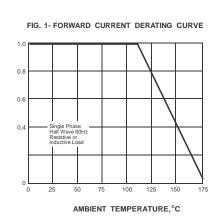
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

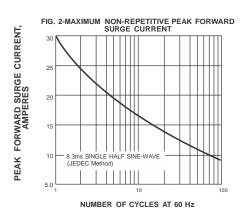
	SYMBOLS	M1 S1A	M2 S1B	M3 S1D	M4 S1G	M5 S1J	M6 S1K	M7 S1M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	I(AV)	1.0							Amp
at TL=110 C	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	Ifsm 30.0							Amps	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.1						Volts	
Maximum DC reverse current Ta=25 C		5.0 50.0							μА
at rated DC blocking voltage Ta=100 C	l _R								
Typical junction capacitance (NOTE 1)	Сл	15.0						pF	
Typical thermal resistance (NOTE 2)	R ja	75.0						C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +175						С	

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 M1 THRU M7 AND S1A THRU S1M







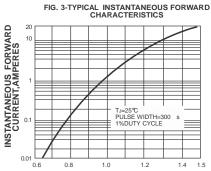
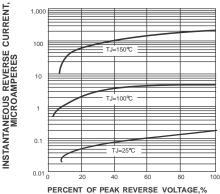
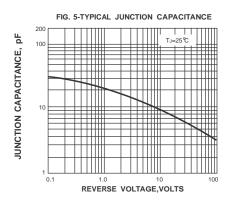


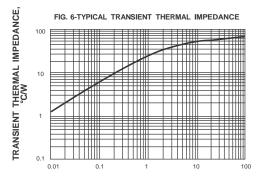


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.

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