

CURRENT 1.0 Ampere  
 VOLTAGE RANG 50 to 1000 Volts

M1 THRU M7

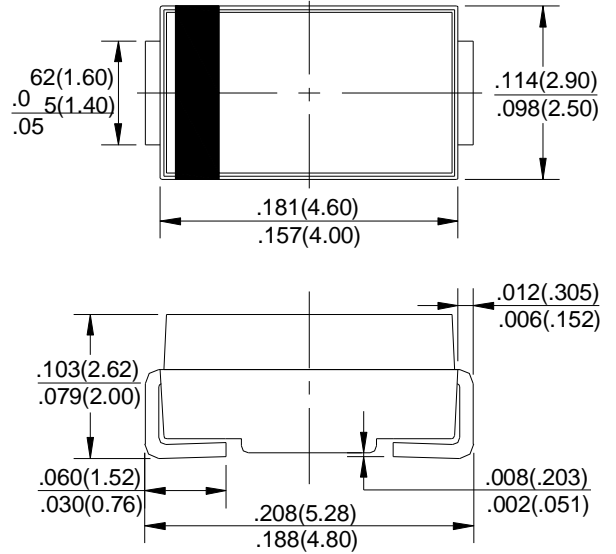
**FEATURES**

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, 0.064 grams

**DO-214AC (SMA)**



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%.

Catalog Number	SYMBOLS	M1	M2	M3	M4	M5	M6	M7	UNITS
Marking code		M1	M2	M3	M4	M5	M6	M7	
Maximum repetitive 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 at T <sub>L</sub> =110°C	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>	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage T <sub>A</sub> =25°C T <sub>A</sub> =100°C	I <sub>R</sub>	5.0 50.0							µA
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	15.0							pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	75.0							°C/W
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-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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RATING AND CHARACTERISTIC CURVES M1 Thru M7

