M1 THRU M7



1.0 AMP SURFACE MOUNT SILICON RECTIFIERS



FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * High surge current capability

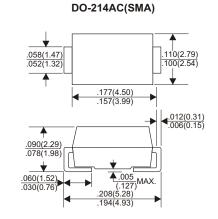
MECHANICAL DATA

* Case: Molded plastic

- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any * Weight: 0.063 gram

VOLTAGE RANGE 50 to 1000 Volts CURRENT

1.0 Ampere



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	M1	M2	М3	M4	M5	М6	M7	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current			•					
.375"(9.5mm) Lead Length at Ta=75°C		1.0						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		30						Α
Maximum Instantaneous Forward Voltage at 1.0A		1.1						V
Maximum DC Reverse Current Ta=25°C		5.0						
at Rated DC Blocking Voltage Ta=100℃		50						
Typical Junction Capacitance (Note 1)		15						pF
Typical Thermal Resistance R JA (Note 2)		50						°C/W
Operating and Storage Temperature Range TJ, TsTG		-65—+175						

NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (M1THRU M7)

FIG.1-TYPICAL FORWARD

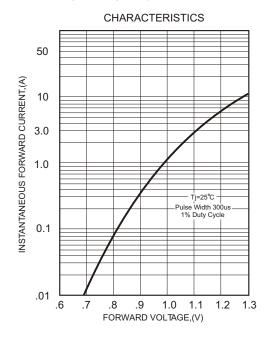


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

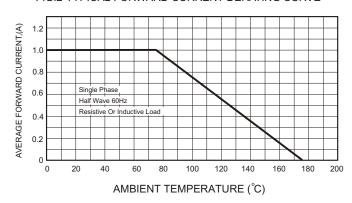


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

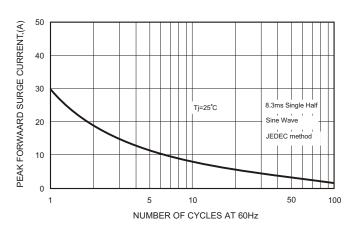


FIG.3 - TYPICAL REVERSE

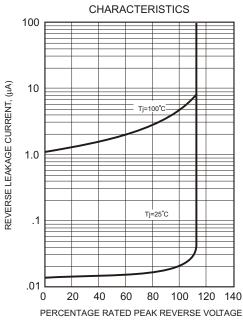


FIG.5-TYPICAL JUNCTION CAPACITANCE

