

US1MW

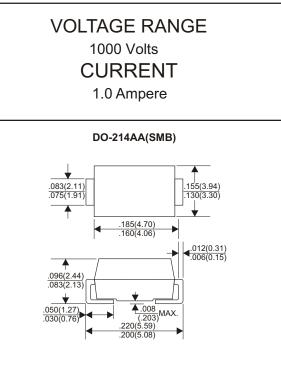
1.0 AMP SURFACE MOUNT HIGH EFFICIENCY RECTIFIERS

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Fast switching speed

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

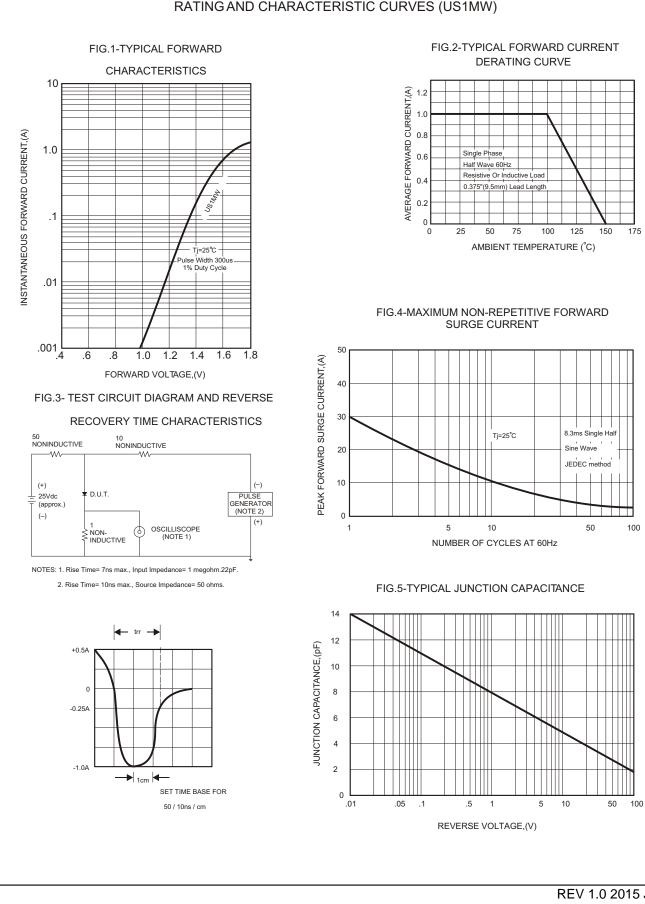
Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| TYPE NUMBER | US1MW | UNITS |
|--|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | 1000 | V |
| Maximum RMS Voltage | 700 | V |
| Maximum DC Blocking Voltage | 1000 | V |
| Maximum Average Forward Rectified Current | | |
| at Ta=55°C | 1.0 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave | | |
| superimposed on rated load (JEDEC method) | 30 | A |
| Maximum Instantaneous Forward Voltage at 1.0A | 1.7 | V |
| Maximum DC Reverse Current Ta=25°C | 2.0 | μA |
| at Rated DC Blocking Voltage Ta=100°C | 200 | μA |
| Maximum Reverse Recovery Time (Note 1) | 75 | nS |
| Typical Junction Capacitance (Note 2) | 9 | pF |
| Operating and Storage Temperature Range TJ, Tstg | -65+150 | °C |

NOTES:

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



RATING AND CHARACTERISTIC CURVES (US1MW)

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