SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

FEATURES

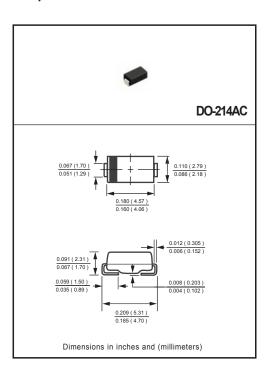
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

| RATINGS | SYMBOL | FM5817 | FM5818 | FM5819 | UNITS |
|---|-------------------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 20 | 30 | 40 | Volts |
| Maximum RMS Voltage | V _{RMS} | 14 | 21 | 28 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 30 | 40 | Volts |
| Maximum Average Forward Rectified Current at T_A = 90°C | Io | 1.0 | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 25 | | | Amps |
| Typical Thermal Resistance (Note 3) | R ₀ JA | 88 | | | °C/W |
| | R _{0JL} | 28 | | | |
| Typical Junction Capacitance (Note 1) | CJ | | pF | | |
| Operating Temperature Range | TJ | | ۰C | | |
| Storage Temperature Range | T _{STG} | | °C | | |

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

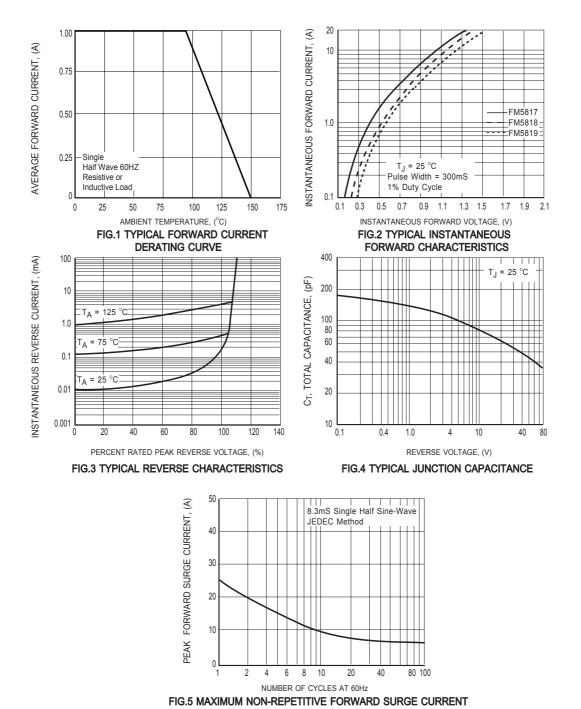
| CHARACTERISTICS | | SYMBOL | FM5817 | FM5818 | FM5819 | UNITS |
|--|-------------------------|----------------|--------|--------|--------|-------|
| Maximum Instantaneous Forward Voltage at 1.0A DC | | VF | .45 | .55 | .60 | Volts |
| Maximum Instantaneous Forward Voltage at 3.1A DC | | VF | .75 | .875 | .90 | Volts |
| Maximum Average Reverse Current | @T _A = 25°C | la la | 0.2 | | | mAmps |
| at Rated DC Blocking Voltage | @T _A = 100°C | l _R | | mAmps | | |

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

- 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
- 3. Thermal Resistance : Mounted on PCB.
- 4. Also available in DO-214AA (SMB).

2006-11

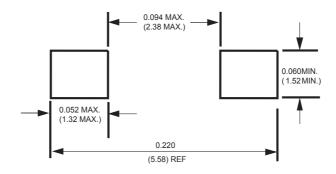
RATING AND CHARACTERISTICS CURVES (FM5817 THRU FM5819)







Mounting Pad Layout



Dimensions in inches and (millimeters)



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