



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

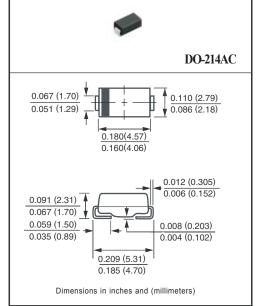
VOLTAGE RANG 20 to 100 Volts CURRENT 2.0 Ampere

FEATURES

- * Low swiching noise
- * Low forward voltage drop
- * High current capability
- * High speed switching * High surge capabitity
- * High reliability
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MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy:Device has UL flammability classification 94V-O
- *Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- *Weight: 0.09gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

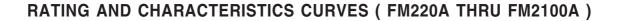
| MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) | | | | | | | | | | |
|--|------------------|--------------|--------|--------|--------|--------|--------|--------|---------|-------|
| RATINGS | SYMBOL | FM220A | FM230A | FM240A | FM250A | FM260A | FM280A | FM290A | FM2100A | UNITS |
| Maximum Recurrent Peak Reverse Voltage | VRRM | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | Volts |
| Maximum RMS Voltage | VRMS | 14 | 21 | 28 | 35 | 42 | 56 | 63 | 70 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | Volts |
| Maximum Average Forward Rectified Current @ TT=120°C | ю | 2.0 | | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 60 | | | | | | | | Amps |
| Thermal Resistance Junction to Ambient | RθJA | 40 | | | | | | | | °C/W |
| Total Capacitance | CJ | 130 | | | | | | | | pF |
| Operating Temperature Range | TJ | -55 to + 125 | | | | | | | | ٥C |
| Storage Temperature Range | Tstg | -55 to + 150 | | | | | | | | ٥C |

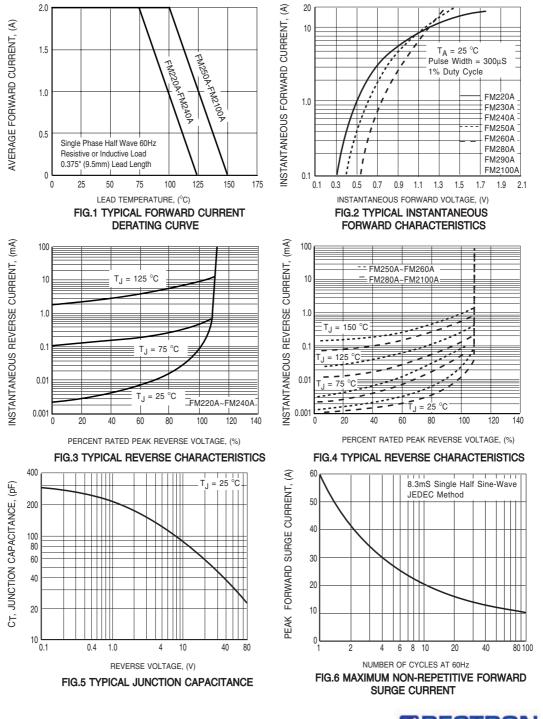
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

| CHARACTERISTICS | | SYMBOL | FM220A | FM230A | FM240A | FM250A | FM260A | FM280A | FM290A | FM2100A | UNITS |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|
| Maximum Instantaneous Forward Voltage at 2.0 | DA DC | VF | | 0.55 | | 0. | 70 | 0.85 | | Volts | |
| Maximum Average Reverse Current | @Ta = 25°C | le. | 0.2 | | | | | | | | mAmps |
| at Rated DC Blocking Voltage | @Ta = 100°C | IR | 2.0 | | | | | | | | mAmps |

NOTES : 1. Measured at 1 MHz and applied reverse voltage of 10 volts. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2006-11





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