



GLASS PASSIVATED SUPER FAST RECTIFIER

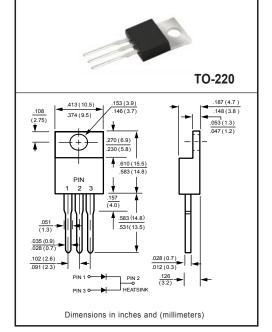
VOLTAGE 200 Volts CURRENT 10 Ampere

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability * Super fast switching speed
- * High reliability
- * Good for switching mode circuit

MECHANICAL DATA

- * Case: TO-220 molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.24 grams



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 | SF104C | UNITS |
|--|------------------|--------------|---------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 200 | Volts |
| Maximum RMS Voltage | V _{RMS} | 140 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 200 | Volts |
| Maximum Average Forward Rectified Current at T _C = 125°C | lo | 10.0 | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 150 | Amps |
| Typical Thermal Resistance (Note 4) | R _{0JA} | 15 | 0.0.000 |
| | R _{θJC} | 3 | °C/W |
| Typical Junction Capacitance (Note 2) | CJ | 50 | pF |
| Operating and Storage Temperature Range | TJ, TSTG | -55 to + 150 | ° C |

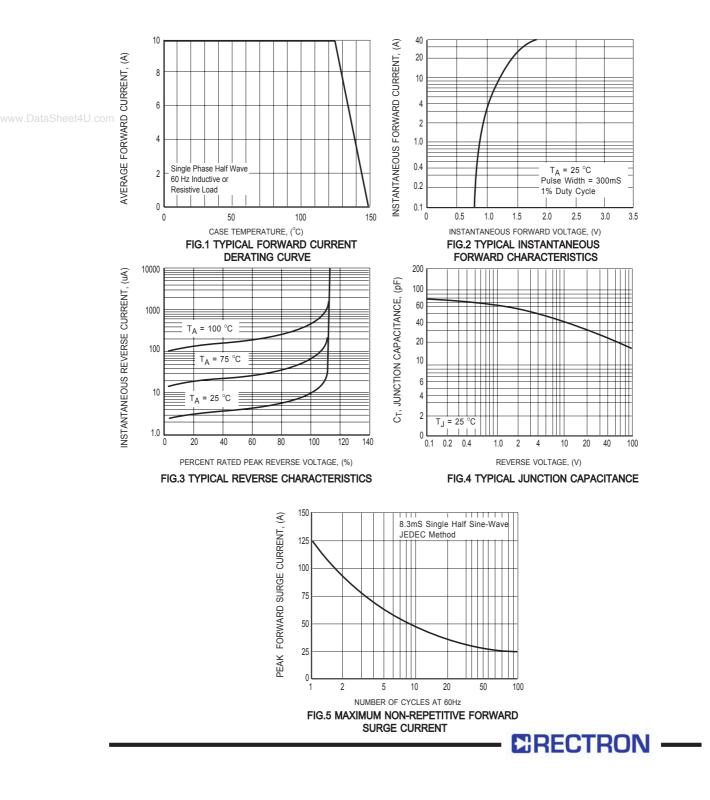
ELECTRICAL CHARACTERISTICS(@T_A=25 °C unless otherwise noted)

| CHARACTERISTICS | | SYMBOL | SF104C | UNITS |
|--|-------------------------|------------------|--------|-------|
| Maximum Instantaneous Forward Voltage at 5.0A DC | | VF | 1.0 | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | @T _A = 25°C | - I _R | 10 | uAmps |
| | @T _A = 100°C | | 500 | |
| Maximum Reverse Recovery Time (Note 1) | | trr | 35 | nSec |
| NOTES: 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A | | | | |

NOTES : 1. Test Conditions: I_F = 0.5A, I_R = -1.0A, I_{RR} = -0.25A 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts. 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

4. Thermal Resistance : Heat-sink mounted.





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