



SF104C

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-0
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

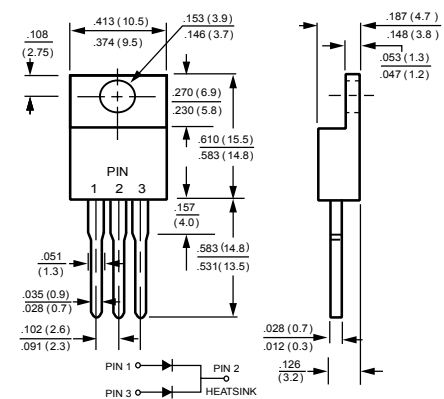
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



TO-220



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 $T_C = 125^\circ\text{C}$	I_O	10.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150	Amps
Typical Thermal Resistance (Note 4)	$R_{\theta JA}$	15	$^\circ\text{C/W}$
	$R_{\theta JC}$	3	
Typical Junction Capacitance (Note 2)	C_J	50	pF
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	$^\circ\text{C}$

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

CHARACTERISTICS	SYMBOL	SF104C	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC	V_F	1.0	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10	uAmps
		500	
Maximum Reverse Recovery Time (Note 1)	t_{rr}	35	nSec

NOTES : 1. Test Conditions: $I_F = 0.5\text{A}$, $I_R = -1.0\text{A}$, $I_{RR} = -0.25\text{A}$
 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.

2007-1

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