



CHENMKO ENTERPRISE CO.,LTD

S10C200FGP

Halogens free devices

SCHOTTKY BARRIER RECTIFIER

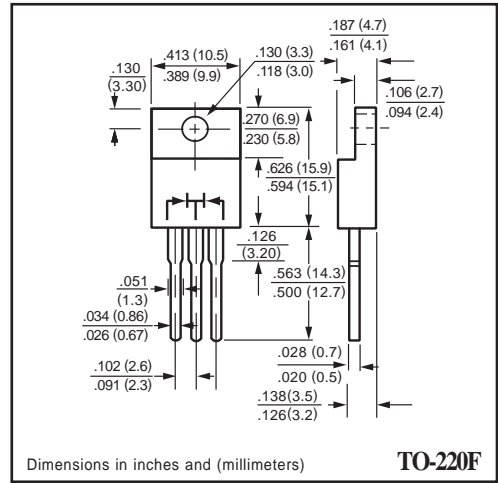
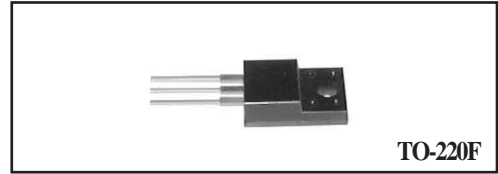
VOLTAGE RANGE 200 Volts CURRENT 10 Amperes

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Metal Silicon junction, majority carrier conduction
- * Low power loss,high efficiency
- * High current capability, low forward voltage drop
- * Guardring for overvoltage protection
- * For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- * High temperature soldering in accordance with CECC 802 / Reflow guaranteed

MECHANICAL DATA

Case: JEDEC TO-220F molded plastic



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 (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	S10C200FGP	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	200	Volts
Maximum RMS Voltage	VRMS	140	Volts
Maximum DC Blocking Voltage	VDC	200	Volts
Maximum Average Forward Rectified Current	Io	10.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200	Amps
Typical thermal resistance per leg (NOTE 1)	R θJC	2.5	°C / W
Operating and Storage Temperature Range	TJ, TSTG	-60 to +150	°C

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

CHARACTERISTICS	SYMBOL	S10C200FGP	UNITS
Maximum Instantaneous Forward Voltage at 5.0 A DC	VF	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage per leg (NOTE 2)	Tc = 25°C	50	uAmps
	Tc = 125°C	50	mAmps

NOTES : 1. Thermal resistance from junction to case per leg
2. Pulse test : 300 us pulse width, 1% duty cycle

2008-01

RATING CHARACTERISTIC CURVES (S10C200FGP)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

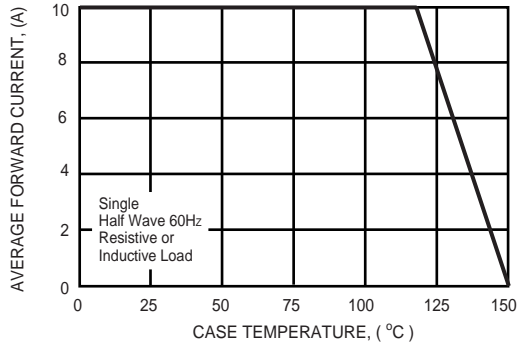


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

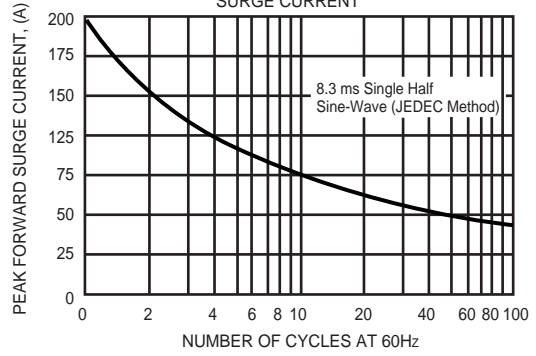


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

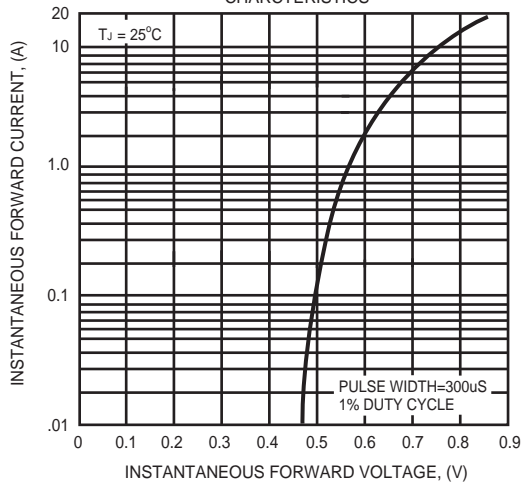


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

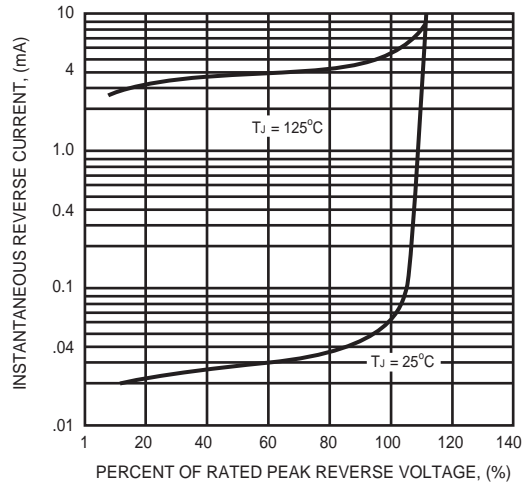


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

