

CHENMKO ENTERPRISE CO.,LTD

S10C150GP

Halogens free devices

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 150 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-220 molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

Weight: 2.45 grams (Approximately)

Marking: S10C150F

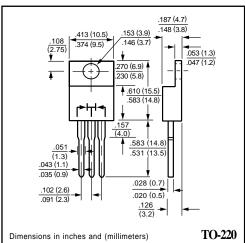
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 RATINGES (At TA = 25°C unless otherwise noted)





RATINGS	SYMBOL	S10C150GP	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	150	Volts
Maximum RMS Voltage	VRMS	105	Volts
Maximum DC Blocking Voltage	VDC	175	Volts
Maximum Average Forward Rectified Current	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 per leg (NOTE 1)	R ∂JC	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	S10C150GP	UNITS
Maximum Instantaneous Forward Voltage at 5.0 A I	DC	VF	0.92	Volts
Maximum instantaneous reverse current at	TC = 25°C		100	uAmps
rated DC blocking voltage per leg (NOTE 2)	Tc = 125°C	lR IR	50	mAmps

NOTES: 1. Thermal resistance from junction to case per leg

2. Pulse test : 300 us pulse width, 1% duty cycle
3. Suffix " C " = Common Cathod, Suffix " A " = Common Anode, Suffix " D " = Double.

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RATING CHARACTERISTIC CURVES (S10C150GP)

