

CHENMKO ENTERPRISE CO.,LTD

S10C70PT **THRU** S10C100PT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 70 - 100 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

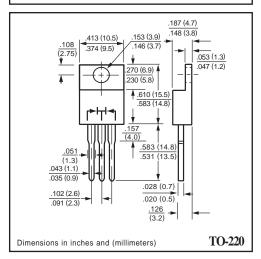
Weight: 2.24 grams (Approximately)

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

RATINGS	SYMBOL	S10C70PT	S10C80PT	S10C90PT	S10C100PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	70	80	90	100	Volts
Maximum RMS Voltage	VRMS	49	56	63	70	Volts
Maximum DC Blocking Voltage	VDC	70	80	90	100	Volts
Maximum Average Forward Rectified Current	lo	10.0				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	125				
Typical thermal resistance per leg (NOTE 1)	R ∂JC	3.0				
Operating and Storage Temperature Range	TJ, TSTG	-60 to +150				

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

CHARACTERISTICS		SYMBOL	S10C70PT	S10C80PT	S10C90PT	S10C100PT	UNITS					
Maximum Instantaneous Forward Voltage at 5.0 A DC		VF	0.75		0.85		Volts					
Maximum instantaneous reverse current at	TC = 25°C		5.0				mAmps					
rated DC blocking voltage per leg (NOTE 2)	TC = 125°C	lR	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.

2001-6

RATING CHARACTERISTIC CURVES (S10C70PT THRU S10C100PT)

