

CHENMKO ENTERPRISE CO.,LTD

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 70 - 100 Volts CURRENT 20 Amperes

S20C70PT THRU S20C100PT

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

MECHANICAL DATA

Case: JEDEC TO-220 molded plastic

Polarity: As marked

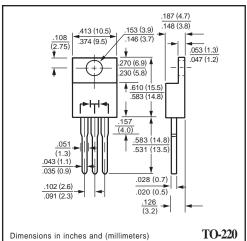
Weight: 2.24 grams (Approximately)

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%.

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





RATINGS	SYMBOL	S20C70PT	S20C80PT	S20C90PT	S20C100PT	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	20.0				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200				
Typical thermal resistance per leg (NOTE 1)	R ∂JC	2.2				
Operating and Storage Temperature Range	TJ, TSTG	-60 to +150				

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

CHARACTERISTICS		SYMBOL	S20C70PT	S20C80PT	S20C90PT	S20C100PT	UNITS
Maximum Instantaneous Forward Voltage at 10.0 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 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.

2003-6

RATING CHARACTERISTIC CURVES (S20C70PT THRU S20C100PT)

