

CHENMKO ENTERPRISE CO., LTD

S10C30PT THRU S10C60PT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 30 - 60 Volts CURRENT 10 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

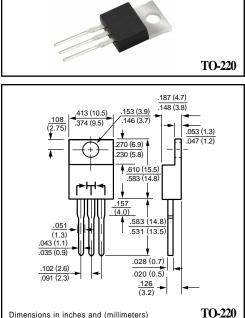
- Metal Silicon junction, majority carrier conduction Low power loss,high efficiency High current capability, low forward voltage drop
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters, free
- wheeling, and polarity protection applications High temperature soldering 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%.



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	S10C30PT	S10C35PT	S10C40PT	S10C45PT	S10C50PT	S10C60PT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	30	35	40	45	50	60	Volts
Maximum RMS Voltage	VRMS	21	24	28	31	35	42	Volts
Maximum DC Blocking Voltage	VDC	30	35	40	45	50	60	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	125						Amps
Typical thermal resistance per leg (NOTE 1)	R θJC	3.0						°C/W
Operating and Storage Temperature Range	TJ, TSTG	-60 to +125						°C

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

CHARACTERISTICS		SYMBOL	S10C30PT	S10C35PT	S10C40PT	S10C45PT	S10C50PT	S10C60PT	UNITS
Maximum Instantaneous Forward Voltage at 5.0 A DC		VF	0.55			0.65		Volts	
Maximum instantaneous reverse current at	TC = 25°C		5.0						mAmps
rated DC blocking voltage per leg (NOTE 2)	TC = 100°C	IR	50						mAmps

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

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

2001-6

