

## CHENMKO ENTERPRISE CO.,LTD

### SCHOTTKY BARRIER RECTIFIER

S10A30PT **THRU** S10A60PT

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-220A molded plastic Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

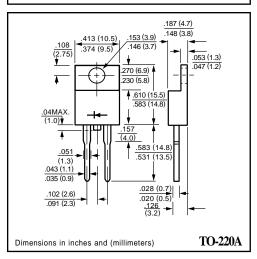
Weight: 1.81 grams ( Approximately )

#### 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-220A



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

RATINGS	SYMBOL	S10A30PT	S10A35PT	S10A40PT	S10A45PT	S10A50PT	S10A60PT	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	150						Amps
Typical thermal resistance per leg ( NOTE 1 )	R ∂JC	5.0						°C/W
Operating and Storage Temperature Range	TJ, TSTG	-60 to +125						°C

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

CHARACTERISTICS		SYMBOL	S10A30PT	S10A35PT	S10A40PT	S10A45PT	S10A50PT	S10A60PT	UNITS	
Maximum Instantaneous Forward Voltage at 10.0 A	laximum Instantaneous Forward Voltage at 10.0 A DC		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	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 " P " = Case Positive, Suffix " R " = Case Negative.

2001-6

## RATING CHARACTERISTIC CURVES (\$10A30PT THRU \$10A60PT)

