

# CHENMKO ENTERPRISE CO., LTD

S05A70PT THRU S05A100PT

## SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 70 - 100 Volts CURRENT 5 Amperes

## **FEATURES**

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

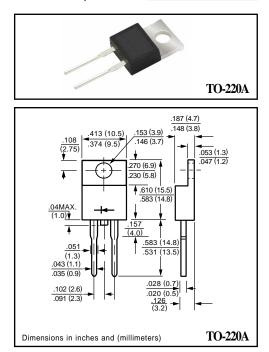
- Metal Silicon junction, majority carrier conduction Low power loss,high efficiency High current capability, low forward voltage drop
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters, free
- wheeling, and polarity protection applications High temperature soldering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



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

RATINGS	SYMBOL	S05A70PT	S05A80PT	S05A90PT	S05A100PT	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	5.0				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	Ігѕм	125				
Typical thermal resistance per leg ( NOTE 1 )	R θJC	5.0				
Operating and Storage Temperature Range	TJ, TSTG	-60 to +150				

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

CHARACTERISTICS		SYMBOL	S05A70PT	S05A80PT	S05A90PT	S05A100PT	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	IR	50				

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

Pulse test : 300 us pulse width, 1% duty cycle
Suffix " P " = Case Positive, Suffix " R " = Case Negative.

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