

## CHENMKO ENTERPRISE CO.,LTD

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 70 - 100 Volts CURRENT 5 Amperes

S05A70GP **THRU** S05A100GP

#### **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

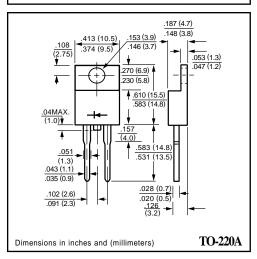
Weight: 1.81 grams ( Approximately )

### 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 )

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RATINGS	SYMBOL	S05A70GP	S05A80GP	S05A90GP	S05A100GP	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)	IFSM	125				
Typical thermal resistance per leg ( NOTE 1 )	R ∂JC	5.0				
Operating and Storage Temperature Range	TJ, TSTG	-60 to +150				°C

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

ELECTRICAL CHARACTERISTICS (ALTA - 20 CHIROSCOLINICAL)												
	CHARACTERISTICS	SYMBOL	S05A70GP	S05A80GP	S05A90GP	S05A100GP	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 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.

2008-01

### RATING CHARACTERISTIC CURVES ( S05A70GP THRU S05A100GP )

