

# CHENMKO ENTERPRISE CO.,LTD

### SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 70 - 100 Volts CURRENT 8 Amperes

S08A70PT **THRU** S08A100PT

#### **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

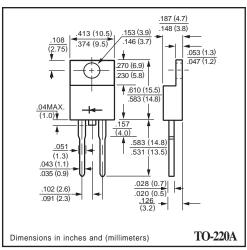
Weight: 1.81 grams ( Approximately )

#### 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   | S08A70PT    | S08A80PT | S08A90PT | S08A100PT | 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       | 8.0         |          |          |           |       |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM     | 150         |          |          |           |       |
| Typical thermal resistance per leg ( NOTE 1 )   | R ∂JC    | 5.0         |          |          |           |       |
| Operating and Storage Temperature Range   | TJ, TSTG | -60 to +150 |          |          |           |       |

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

| CHAPACTERISTICS SYMBOL SORATORT SORABORT SORADORT SORADORT LINITS |  |            |        |          |          |          |           |       |  |  |  |
|---|--|------------|--------|----------|----------|----------|-----------|-------|--|--|--|
|   | CHARACTERISTICS  Maximum Instantaneous Forward Voltage at 8.0 A DC |            | SYMBOL | S08A70PT | S08A80PT | S08A90PT | S08A100PT | UNITS |  |  |  |
|   |  |            | 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.

2001-6

## RATING CHARACTERISTIC CURVES ( S08A70PT THRU S08A100PT )

