

# CHENMKO ENTERPRISE CO.,LTD

S15P20PT **THRU** S15P40PT

read free devices

#### SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 40 Volts CURRENT 15 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 DPAK molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

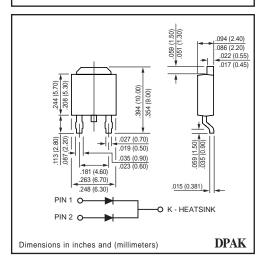
Weight: 1.7 grams ( Approximately )

#### 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%.

# **DPAK**



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

| RATINGS   | SYMBOL   | S15P20PT    | S15P30PT | S15P40PT | UNITS |
|---|----------|-------------|----------|----------|-------|
| Maximum Recurrent Peak Reverse Voltage  | Vrrm     | 20          | 30       | 40       | Volts |
| Maximum RMS Voltage   | VRMS     | 14          | 21       | 28       | Volts |
| Maximum DC Blocking Voltage   | VDC      | 20          | 30       | 40       | Volts |
| Maximum Average Forward Rectified Current   | lo       | 15.0        |          |          | Amps  |
| 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    | 2.5         |          |          |       |
| Operating and Storage Temperature Range   | TJ, TSTG | -40 to +125 |          |          |       |

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

| CHARACTERISTICS                                   |            | SYMBOL | S15P20PT | S15P30PT | S15P40PT | UNITS |  |  |  |  |
|---|------------|--------|----------|----------|----------|-------|--|--|--|--|
| Maximum Instantaneous Forward Voltage at 7.5 A DC |            | VF     | 0.55     |          |          | Volts |  |  |  |  |
| Maximum instantaneous reverse current at          | Tc = 25°C  |        | 1.0      |          |          | mAmps |  |  |  |  |
| rated DC blocking voltage per leg (NOTE 2)        | Tc = 100°C | lR IR  | 50       |          |          |       |  |  |  |  |

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

2. Pulse test: 300 us pulse width, 1% duty cycle

2002-5

## RATING CHARACTERISTIC CURVES ( \$15P20PT THRU \$15P40PT )

