

CHENMKO ENTERPRISE CO., LTD

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 30 - 60 Volts CURRENT 15 Amperes

FEATURES

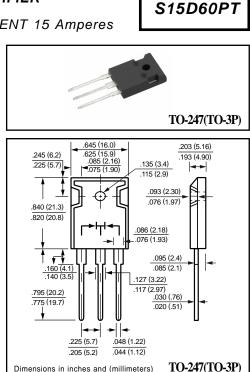
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Metal Silicon junction, majority carrier conduction Low power loss,high efficiency High current capability, low forward voltage drop
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters, free
- wheeling, and polarity protection applications High temperature soldering in accordance with CECC 802 / Reflow guaranteed

MECHANICAL DATA

Case: JEDEC TO-247 molded plastic Terminals: Lead solderable per MIL-STD-750, Method 2026 Polarity: As marked Weight: 5.6 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%.



S15D30PT

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

| RATINGS | SYMBOL | S15D30PT | S15D35PT | S15D40PT | S15D45PT | S15D50PT | S15D60PT | 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 | 15.0 | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 200 | | | | | | Amps |
| Typical thermal resistance per leg (NOTE 1) | R ∂JC | 2.5 | | | | | | °C/W |
| Operating and Storage Temperature Range | TJ, TSTG | -60 to +125 | | | | | | °C |

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

| CHARACTERISTICS | | SYMBOL | S15D30PT | S15D35PT | S15D40PT | S15D45PT | S15D50PT | S15D60PT | UNITS |
|---|------------|--------|----------|----------|----------|----------|----------|----------|-------|
| Maximum Instantaneous Forward Voltage at 7.5 A DC | | VF | 0.55 0.6 | | | | 65 | Volts | |
| Maximum instantaneous reverse current at | TC = 25°C | | 5.0 | | | | | | mAmps |
| rated DC blocking voltage per leg (NOTE 2) | TC = 100°C | l R | 50 | | | | | | mAmps |

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

Pulse test : 300 us pulse width, 1% duty cycle
Suffix " C " = Common Cathod, Suffix " A " = Common Anode, Suffix " D " = Double.

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