



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 60 Volts CURRENT 6 Amperes

S06P60GP

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

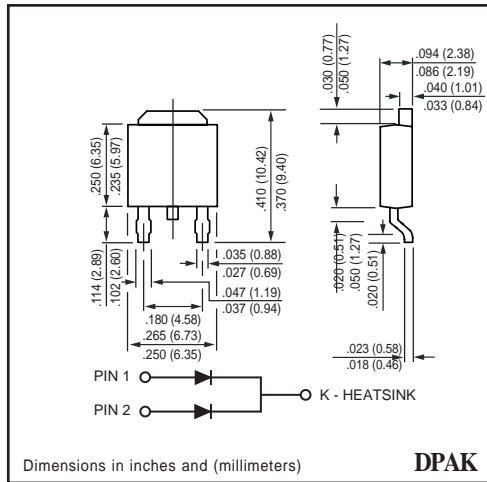
Case: JEDEC DPAK molded plastic
Terminals: Lead solderable per MIL-STD-750, Method 2026
Polarity: As marked
Weight: 1.7 grams (Approximately)

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



Dimensions in inches and (millimeters)

DPAK

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

| RATINGS | SYMBOL | S06P60GP | |
|---|----------|-------------|--------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 60 | Volts |
| Maximum RMS Voltage | VRMS | 42 | Volts |
| Maximum DC Blocking Voltage | VDC | 60 | Volts |
| Maximum Average Forward Rectified Current | Io | 6.0 | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 150 | Amps |
| Typical thermal resistance per leg (NOTE 1) | R θJC | 5.0 | °C / W |
| Operating and Storage Temperature Range | TJ, TSTG | -65 to +150 | °C |

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

| CHARACTERISTICS | SYMBOL | S06P60GP | Volts |
|---|------------|----------|-------|
| Maximum Instantaneous Forward Voltage at 3.0 A DC | VF | 0.75 | Volts |
| Maximum instantaneous reverse current at rated DC blocking voltage per leg (NOTE 2) | Tc = 25°C | 1.0 | mAmps |
| | Tc = 100°C | 50 | mAmps |

NOTES : 1. Thermal resistance from junction to case per leg
 2. Pulse test : 300 us pulse width, 1% duty cycle

RATING CHARACTERISTIC CURVES (S06P60GP)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

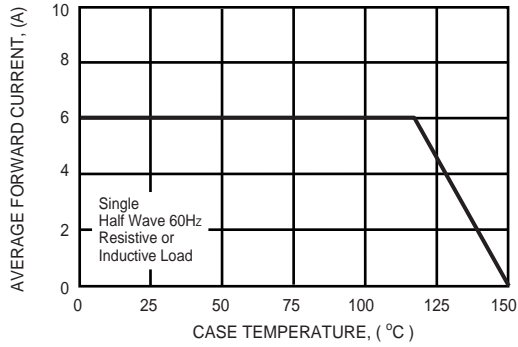


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

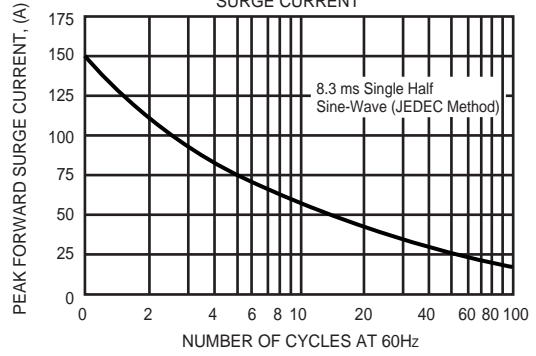


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

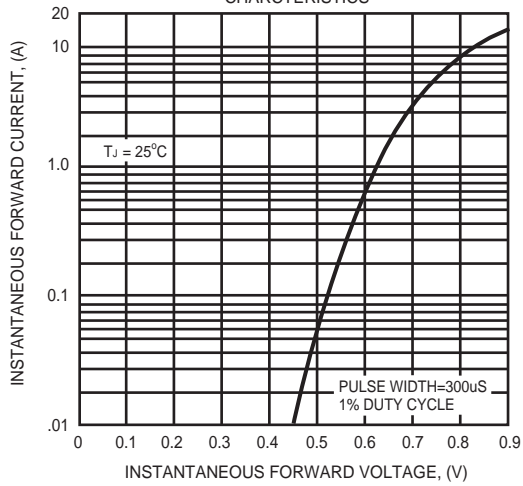


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

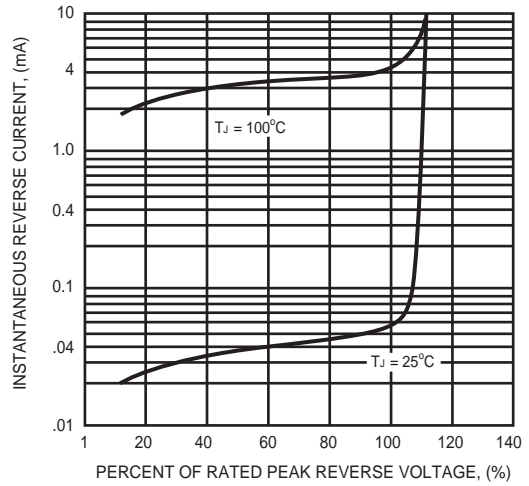


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

