

CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 40 Volts CURRENT 5.0 Amperes SSM54LPT

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
 High temperature soldering guaranteed:
 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC SMA molded plastic

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

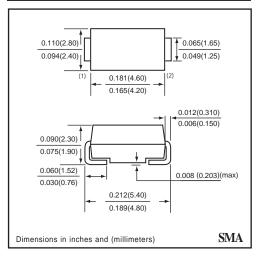
Polarity: Color band denotes cathode end Weight: 0.002 ounce 0.064 gram

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 | SSM54LPT | UNITS |
|---------------------------------------------------------------------------------------------------|----------|-------------|-------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 40 | Volts |
| Maximum RMS Voltage | VRMS | 28 | Volts |
| Maximum DC Blocking Voltage | VDC | 40 | Volts |
| Maximum Average Forward Rectified Current | lo | 5.0 | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 125 | Amps |
| Typical Junction Capacitance (Note 2) | CJ | 300 | pF |
| Typical Thermal Resistance (Note 1) | R θ JL | 15 | °C/W |
| Operating and Storage Temperature Range | TJ, TSTG | -65 to +125 | °C |

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

| CHARACTERISTICS | | SYMBOL | SSM54LPT | UNITS | | | |
|---------------------------------------------------|--------------|--------|----------|-------|--|--|--|
| Maximum Instantaneous Forward Voltage at 5.0 A DC | | VF | 0.40 | Volts | | | |
| Maximum Average Reverse Current | @ TA = 25°C | lr lr | 1.0 | mAmps | | | |
| at Rated DC Blocking Voltage | @ Ta = 100°C | | 40 | mAmps | | | |

NOTES: 1. Thermal Resistance (Junction to Lead): PC Board Mounted on 0.55 X 0.55" (14 X 14mm) copper pad area.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

2002-5

