



CHENMKO ENTERPRISE CO.,LTD

SSM34APT

Lead free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 40 Volts CURRENT 3.0 Amperes

FEATURES

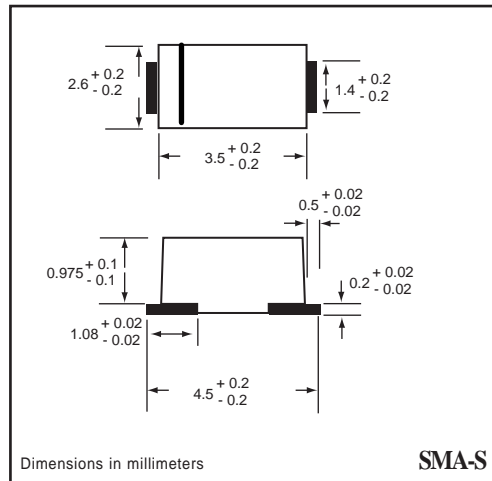
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * For surface mounted applications
- * Low profile package
- * Built-in strain relief
- * Metal silicon junction, majority carrier conduction
- * Low power loss, high efficiency
- * High current capability, low forward 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-S 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



SMA-S



Dimensions in millimeters

SMA-S

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

| RATINGS | SYMBOL | SSM34APT | 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 | Io | 3.0 | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 80 | Amps |
| Typical Junction Capacitance (Note 2) (SEE FIG.4) | CJ | 250 | pF |
| Typical Thermal Resistance (Note 1) | RθJL | 18 | °C / W |
| Operating Temperature Range | TJ | -65 to +125 | °C |
| Storage Temperature Range | TSTG | -65 to +150 | °C |

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

| CHARACTERISTICS | SYMBOL | SSM34APT | UNITS |
|--|--------|--------------|-------|
| Maximum Instantaneous Forward Voltage | VF | @ IF = 1.0A | 0.38 |
| | | @ IF = 3.0A | 0.50 |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | IR | @ TA = 25°C | 0.5 |
| | | @ TA = 100°C | 30 |

NOTES : 1. Thermal Resistance (Junction to Lead) : PC Board Mounted on 0.31 X 0.31" (8 X 8mm) copper pad area.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

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RATING CHARACTERISTIC CURVES (SSM34APT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

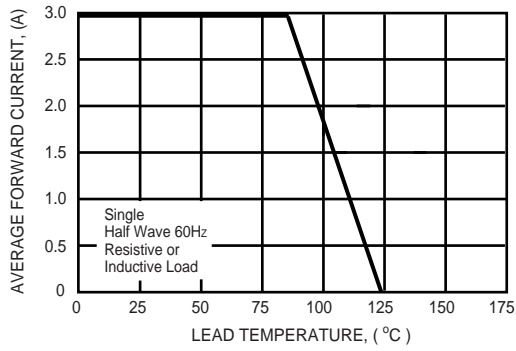


FIG. 2 - INSTANTANEOUS FORWARD CURRENT, (A)

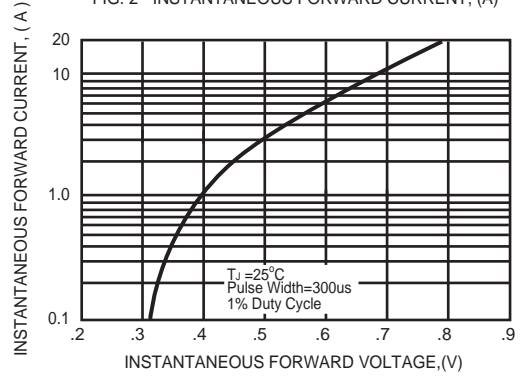


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

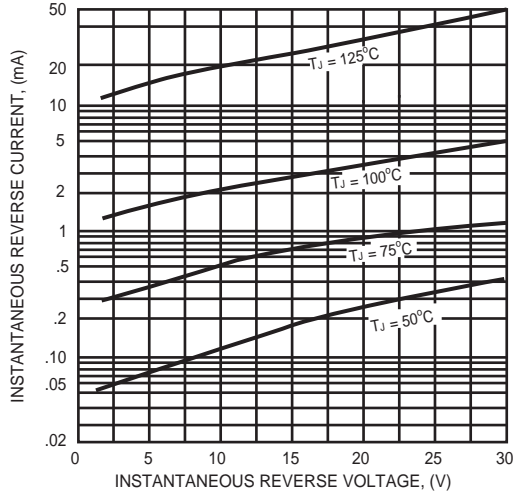


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

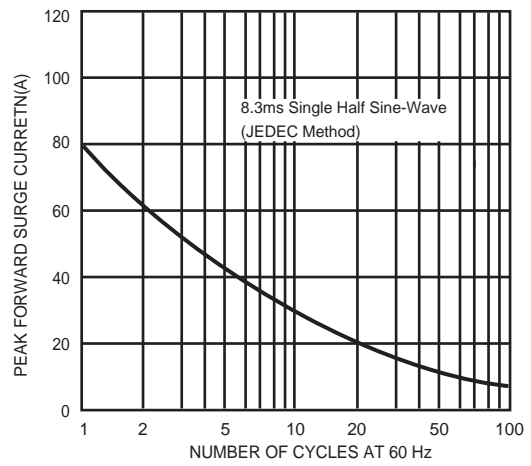


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

