

# CHENMKO ENTERPRISE CO.,LTD

**SURFACE MOUNT** 

SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 40 Volts CURRENT 5.0 Amperes SSM54LGP

#### **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

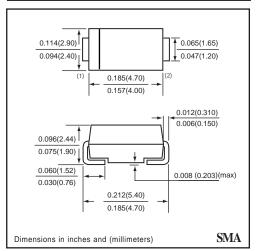
Polarity: Color band denotes cathode end Weight: 0.002 ounce 0.064 gram

## 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	SSM54LGP	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	SSM54LGP	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.

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