

# CHENMKO ENTERPRISE CO.,LTD

## SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 20 - 40 Volts CURRENT 2.0 Amperes SSM22LPT **THRU** SSM24LPT

## **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

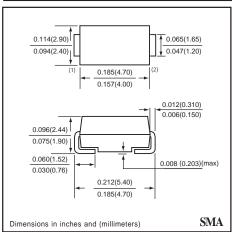
Weight: 0.002 ounce 0.064 gram

### 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	SSM22LPT	SSM23LPT	SSM24LPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	Volts
Maximum RMS Voltage	VRMS	14	21	28	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	Volts
Maximum Average Forward Rectified Current	lo	2.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60			Amps
Typical Junction Capacitance (Note 2)	CJ	250			pF
Typical Thermal Resistance (Note 1)	R θ JL	20			°C / W
Operating and Storage Temperature Range	TJ,TSTG	-65 to +125			°C

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

CHARACTERISTICS		SYMBOL	SSM22LPT	SSM23LPT	SSM24LPT	UNITS
Maximum Instantaneous Forward Voltage at 2.0 A DC		VF	0.40			Volts
Maximum Average Reverse Current	@ Ta = 25°C	l R	1.0			mAmps
at Rated DC Blocking Voltage	@ Ta = 100°C	IR.		10		

NOTES: 1. Thermal Resistance ( Junction to Lead ): PC Board Mounted on 0.2 X 0.2" ( 5 X 5mm ) copper pad area.

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

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