

## CHENMKO ENTERPRISE CO.,LTD

#### SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 100 Volts CURRENT 0.5 Ampere SSM05100SPT

#### **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
- 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 SOD-123 molded plastic

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

Method 2026

Polarity: Color band denotes cathode end

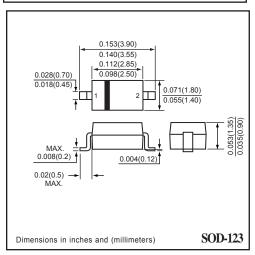
Marking: K9

#### 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%.

# SOD-123



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

RATINGS	SYMBOL	SSM05100SPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	100	Volts
Maximum RMS Voltage	VRMS	70	Volts
Maximum DC Blocking Voltage	VDC	100	Volts
Maximum Average Forward Rectified Current at TL = 118°C	lo	0.5	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	8.0	Amps
Typical Thermal Resistance (Note 1)	RθJL	70	°C/W
Operating Temperature Range	TJ	-40 to +150	°C
Storage Temperature Range	Тѕтс	-40 to +150	°C

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

CHARACTERISTICS		SYMBOL	SSM05100SPT	UNITS
Maximum Instantaneous Forward Voltage at IF=0.5A	@ Ta = 25°C	VF	0.57	Volts
Maximum Average Reverse Current at Ratied DC Blocking Voltage	@ TA = 25°C	lr	50	uAmps

NOTES: 1. Thermal Resistance ( Junction to Lead ): PC Board Mounted on 0.06 X 0.06" ( 0.15X 0.15mm ) copper pad area.

2003-12

### RATING CHARACTERISTIC CURVES ( SSM05100SPT )

