

# CHENMKO ENTERPRISE CO.,LTD

## SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 40 Volts CURRENT 1.0 Ampere SSM14APT



#### **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

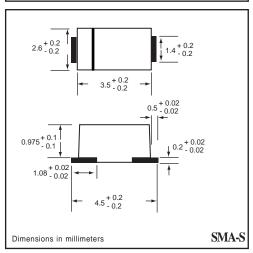
Polarity: Color band denotes cathode end Weight: 0.002 ounce 0.064 gram

### 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 )

www.DataShe

RATINGS	SYMBOL	SSM14APT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	40	Volts
Maximum RMS Voltage	VRMS	28	Volts
Maximum DC Blocking Voltage	VDC	20	Volts
Maximum Average Forward Rectified Current	lo	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30	Amps
Typical Junction Capacitance (Note 2)	Ci	110	pF
Typical Thermal Resistance (Note 1)	RθJL	25	°C/W
Operating and Storage Temperature Range	TJ,TSTG	-65 to +125	°C

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

CHARACTERISTICS			SSM14APT	UNITS
Maximum Instantaneous Forward Voltage at IF=1	A	VF	0.50	Volts
Maximum Average Reverse Current at VR=20V	@ Ta = 25°C	lr	1.0	mAmps
	@ Ta = 100°C		40	mAmps

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.

2002-3

