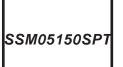


# CHENMKO ENTERPRISE CO., LTD

# SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 150 Volts CURRENT 0.5 Ampere



### **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

## **MECHANICAL DATA**

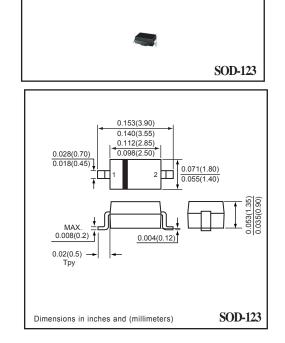
Case: JEDEC SOD-123 molded plastic Polarity: Color band denotes cathode end Weight: 0.001 ounce 0.032 gram

#### MARKING

\*K18

#### 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	SSM05150SPT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	150	Volts
Maximum RMS Voltage	VRMS	105	Volts
Maximum DC Blocking Voltage	VDC	150	Volts
Maximum Average Forward Rectified Current at $TL = 90^{\circ}C$	lo	0.5	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) $TL = 70^{\circ}C$	IFSM	30	Amps
Typical Junction Capacitance (Note 2)	CJ	15	pF
Typical Thermal Resistance (Note 1)	RθJL	80	°C/W
Storage and Operating Temperature Range	TJ, TSTG	-65 to +125	°C

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

	CHARACTERISTICS		SYMBOL	SSM05150SPT	UNITS
	Maximum Instantaneous Forward Voltage at 0.5 A DC		VF	0.80	Volts
	Maximum Average Reverse Current	@ TA = 25°C	lr	50	uAmps
	at Rated DC Blocking Voltage	@ TA = 100°C		5	mAmps
	NOTES : 1 Thermal Resistance ( Junction to Lead	) 2" ( 5 X 5mm ) conner had area	2006-1		

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

