

## CHENMKO ENTERPRISE CO., LTD

### SURFACE MOUNT

Lead free devices SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 60 Volts CURRENT 1.0 Ampere

# SSM0160SPT

#### **FEATURES**

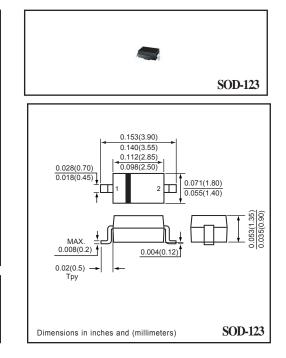
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- 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 SOD-123 molded plastic Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Weight: 0.001 ounce 0.032 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	SSM0160SPT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	60	Volts
Maximum RMS Voltage	VRMS	42	Volts
Maximum DC Blocking Voltage	VDC	60	Volts
Maximum Average Forward Rectified Current at TL = 90°C	lo	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) $TL = 70^{\circ}C$	IFSM	25	Amps
Typical Junction Capacitance (Note 2)	CJ	110	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	SSM0160SPT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC		Vf	0.55	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	I <sub>R</sub>	50	uAmps

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

2002-9

