

CHENMKO ENTERPRISE CO., LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 200 Volts CURRENT 1.0 Ampere



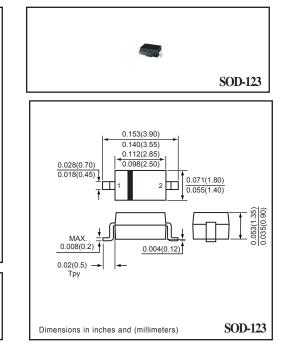
FEATURES

- 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 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.



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

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	SSM1200SPT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	Volts
Maximum RMS Voltage	Vrms	140	Volts
Maximum DC Blocking Voltage	VDC	200	Volts
Maximum Average Forward Rectified Current at $TL = 90^{\circ}C$	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	35	Amps
Typical Junction Capacitance (Note 2)	CJ	140	pF
Typical Thermal Resistance (Note 1)	RθJL	80	°C/W
Storage and Operating Temperature Range	TJ, TSTG	-65 to +150	°C

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

CHARACTERISTICS		SYMBOL	SSM1200SPT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A	DC	VF	0.9	Volts
Maximum Average Reverse Current	@ TA = 25°C	IR	1	uAmps
at Rated DC Blocking Voltage	@ TA = 100°C	IK	5	mAmps
NOTES 1. Thermal Resistance (Junction to Lead) - PC Roard Mounted on 0.2 X 0.2" (5 X 5mm) conner had area				

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

