

CHENMKO ENTERPRISE CO., LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 100 Volts CURRENT 3.0 Amperes

SSM310PT

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 * Lead free devices

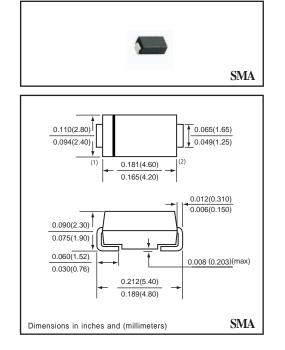
MECHANICAL DATA

Case: JEDEC SMA molded plastic

Polarity: Color band denotes cathode end

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	SSM310PT	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	lo	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	80	Amps
Typical Junction Capacitance (Note 2) (SEE FIG.4)	CJ	250	pF
Typical Thermal Resistance (Note 1)	RθJL	30	°C/W
Operating Temperature Range	TJ	-65 to +150	°C
Storage Temperature Range	Tstg	-65 to +150	°C

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

CHARACTERISTICS		SYMBOL	SSM310PT	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC		VF	0.85	Volts
Maximum Average Reverse Current	@ TA = 25°C	lr	0.5	mAmps
at Rated DC Blocking Voltage	@ TA = 100°C		30	mAmps

NOTES: 1. Thermal Resistance (Junction to Lead): PC Board Mounted on 0.31 X 0.31" (8 X 8mm) copper pad area. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

2006-5

