

## CHENMKO ENTERPRISE CO.,LTD

#### SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 70 - 100 Volts CURRENT 2.0 Amperes

SSM27PT THRU SSM210PT

#### **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

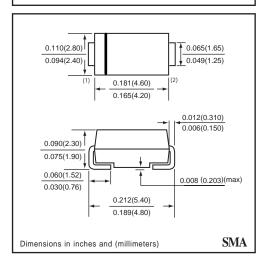
Weight: 0.002 ounce 0.064 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at  $25^{\circ}\mathrm{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

# SMA



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

RATINGS	SYMBOL	SSM27PT	SSM28PT	SSM29PT	SSM210PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	70	80	90	100	Volts
Maximum RMS Voltage	VRMS	49	56	63	70	Volts
Maximum DC Blocking Voltage	VDC	70	80	90	100	Volts
Maximum Average Forward Rectified Current	lo	2.0				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50				
Typical Junction Capacitance (Note 2)	Cı	110				
Typical Thermal Resistance (Note 1)	R θ JL	17				
Operating and Storage Temperature Range	TJ,TSTG	-65 to +150				

#### **ELECTRICAL CHARACTERISTICS** ( At TA = $25^{\circ}$ C unless otherwise noted )

CHARACTERISTICS		SYMBOL	SSM27PT	SSM28PT	SSM29PT	SSM210PT	UNITS				
Maximum Instantaneous Forward Voltage at 2.0 A DC		VF	0.75		0.80		Volts				
Maximum Average Reverse Current	@ Ta = 25°C	lo.	0.5				mAmps				
at Rated DC Blocking Voltage	@ Ta = 100°C	lR IR	10				mAmps				

NOTES: 1. Thermal Resistance ( Junction to Lead ): PC Board Mounted on 0.2 X 0.2" ( 5 X 5mm ) copper pad area.

Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

2002-5

### RATING CHARACTERISTIC CURVES ( SSM27PT THRU SSM210PT )

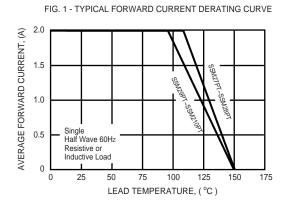


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

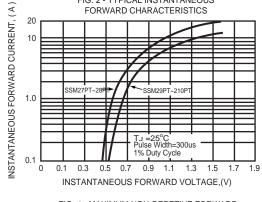


FIG. 2 - TYPICAL INSTANTANEOUS

FIG. 4 - MAXIMUM NON-REPETIVE FORWARD

