

### CHENMKO ENTERPRISE CO.,LTD

#### SURFACE MOUNT

Lead free devices SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 20 - 60 Volts CURRENT 3.0 Amperes SSM32PT **THRU** SSM36PT

#### **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

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

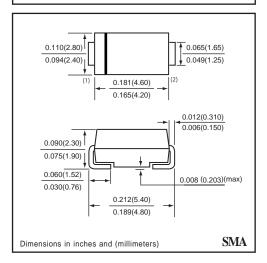
Weight: 0.002 ounce 0.064 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°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	SSM32PT	SSM33PT	SSM34PT	SSM35PT	SSM36PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	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)	Cı	250					pF
Typical Thermal Resistance (Note 1)	RθJL	18					°C/W
Operating Temperature Range	TJ	-65 to +125 -65 to +150			+150	°C	
Storage Temperature Range	Тѕтс	-65 to +150					°C

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

CHARACTERISTICS		SYMBOL	SSM32PT	SSM33PT	SSM34PT	SSM35PT	SSM36PT	UNITS				
Maximum Instantaneous Forward Voltage at 3.0	num Instantaneous Forward Voltage at 3.0 A DC		0.55			0.70		Volts				
Maximum Average Reverse Current	@ Ta = 25°C	lo.	0.5					mAmps				
at Rated DC Blocking Voltage	@ Ta = 100°C	lR	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.

2002-5

## RATING CHARACTERISTIC CURVES ( SSM32PT THRU SSM36PT )

