

## CHENMKO ENTERPRISE CO.,LTD

### SURFACE MOUNT

NOLTAGE RANGE 20 - 60 Volts CURRENT 1.0 Ampere

SSM12PT THRU SSM16PT

#### **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

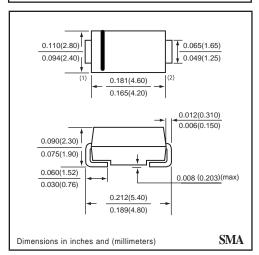
**Polarity:** Color band denotes cathode end **Weight:** 0.002 ounce 0.064 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at  $25^{\circ}\mathrm{C}$  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 )

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SSM12PT 20 14 20	SSM13PT 30 21	SSM14PT 40 28	SSM15PT 50 35	SSM16PT 60	UNITS Volts
14	21				Volts
		28	35		
20	00		1 00	42	Volts
	30	40	50	60	Volts
1.0					Amps
				Amps	
110					pF
25					°C/W
-65 to +125 -65 to +150			+150	°C	
-65 to +150				°C	
		-65 to +125	40 110 25 -65 to +125	40 110 25 -65 to +125 -65 to	40 110 25 -65 to +125 -65 to +150

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

CHARACTERISTICS	SYMBOL	SSM12PT	SSM13PT	SSM14PT	SSM15PT	SSM16PT	UNITS						
Maximum Instantaneous Forward Voltage at 1.0 A DC		VF	0.50			0.	70	Volts					
Maximum Average Reverse Current	@ Ta = 25°C	Is.	0.5					mAmps					
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

