



**CHENMKO ENTERPRISE CO.,LTD**

Halogens free devices

### SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 10 Volts CURRENT 2.0 Amperes

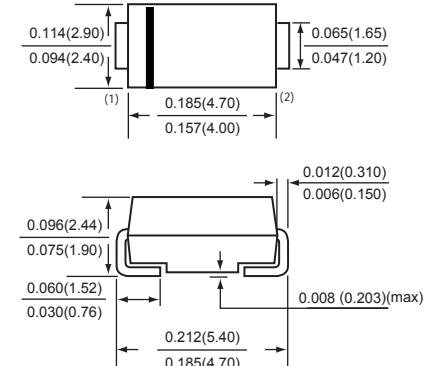
**SSM2( GP!5**

#### 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



**SMA**



Dimensions in inches and (millimeters)

**SMA**

#### 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 RATINGS ( At TA = 25°C unless otherwise noted )**

RATINGS	SYMBOL	SSM24GP-A	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	28	Volts
Maximum DC Blocking Voltage	V <sub>D</sub> C	40	Volts
Maximum Average Forward Rectified Current	I <sub>O</sub>	2.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50	Amps
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	210	pF
Typical Thermal Resistance (Note 1)	R <sub>θ JL</sub>	20	°C / W
Operating Temperature Range	T <sub>J</sub>	-65 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150	°C

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

CHARACTERISTICS	SYMBOL	SSM24GP-A	UNITS
Maximum Instantaneous Forward Voltage at 2.0 A DC	V <sub>F</sub>	0.55	Volts
Maximum Average Reverse Current @ TA = 25°C	IR	0.2	mAmps
at Rated DC Blocking Voltage @ TA = 100°C		10	mAmps

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.

2011-08

## RATING CHARACTERISTIC CURVES ( SSM24GP-A )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

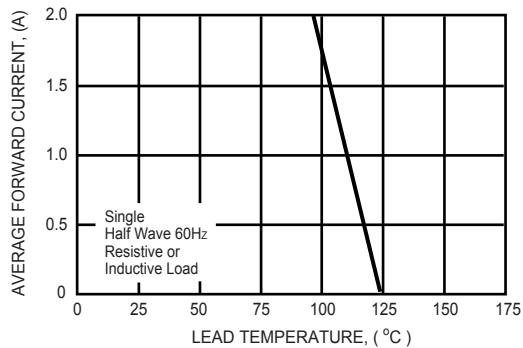


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

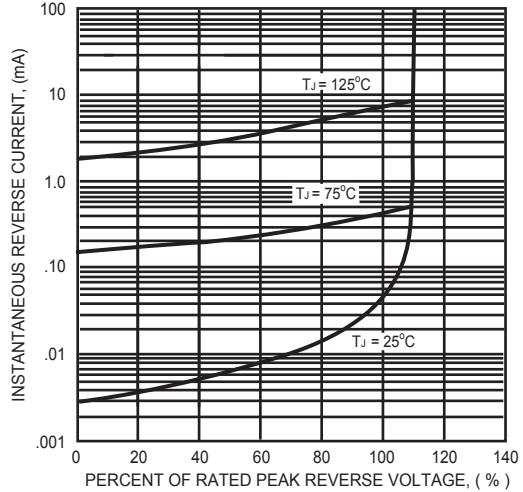


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

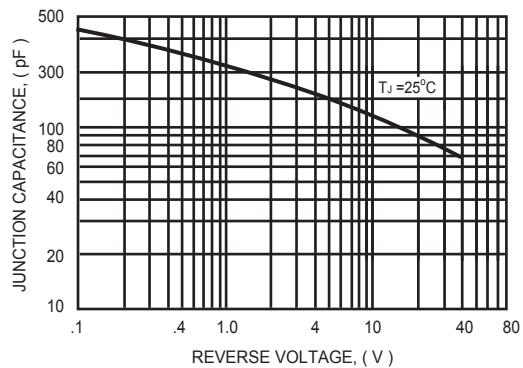


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

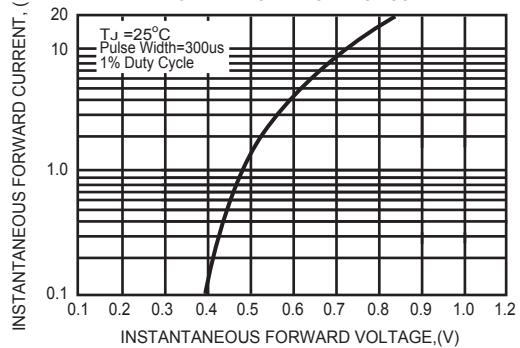


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

