



**CHENMKO ENTERPRISE CO.,LTD**

*Halogens free devices*

**SURFACE MOUNT**

**SCHOTTKY BARRIER RECTIFIER**

**VOLTAGE RANGE 20 Volts CURRENT 3.0 Amperes**

**SSM32LLGP**

**FEATURES**

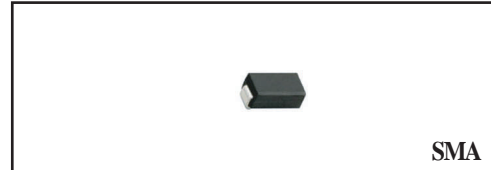
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- \* For surface mounted applications
- \* Low profile package
- \* Built-in strain relief
- \* Metal silicon junction, majority carrier conduction
- \* Low power loss, high efficiency
- \* High current capability, low 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**

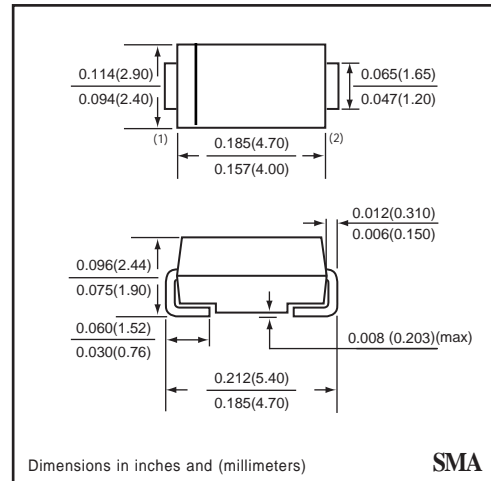
**Case:** JEDEC SMA molded plastic  
**Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026  
**Polarity:** Color band denotes cathode end  
**Weight:** 0.002 ounce 0.064 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.



**SMA**



Dimensions in inches and (millimeters)

**SMA**

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

RATINGS	SYMBOL	SSM32LLGP	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	Volts
Maximum Average Forward Rectified Current	I <sub>O</sub>	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	100	Amps
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	250	pF
Typical Thermal Resistance (Note 1)	R <sub>θJL</sub>	18	°C / W
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-65 to +125	°C

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

CHARACTERISTICS	SYMBOL	SSM32LLGP	UNITS
Maximum Instantaneous Forward Voltage at 3.0 A DC	V <sub>F</sub>	0.27	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	1.0	mAmps
	@ TA = 100°C	40	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.

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## RATING CHARACTERISTIC CURVES ( SSM32LLGP )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

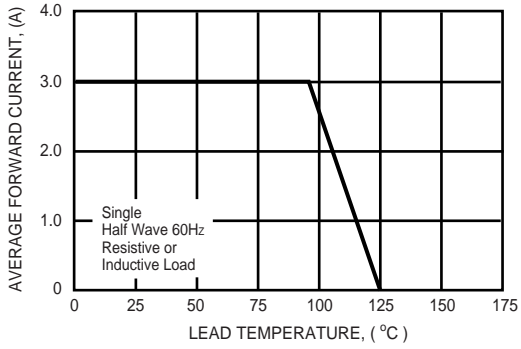


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

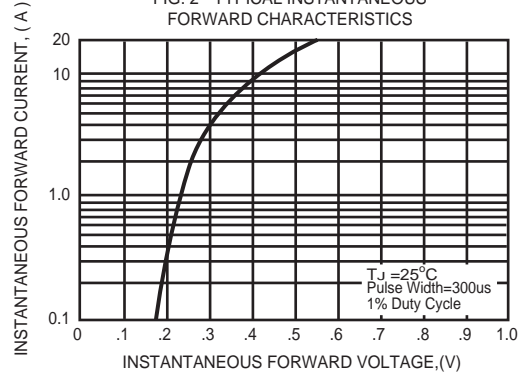


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

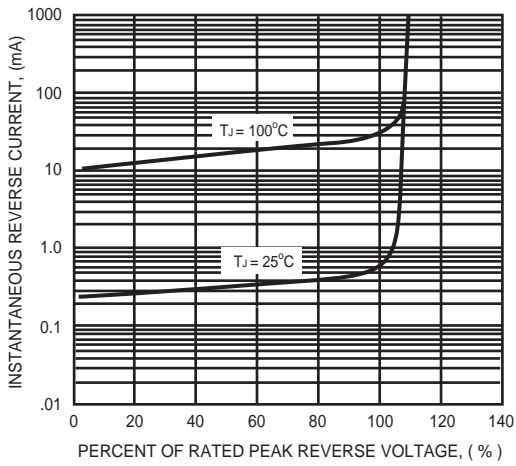


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

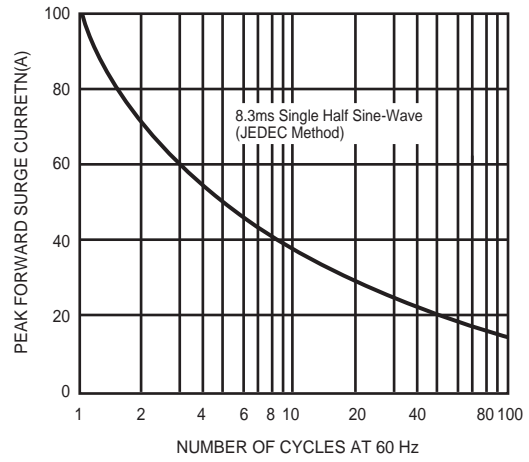


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

