



**CHENMKO ENTERPRISE CO.,LTD**

**CHSBFJGP**

**SURFACE MOUNT**

**SCHOTTKY BARRIER RECTIFIER**

**VOLTAGE RANGE 60 Volts CURRENT 2.0 Ampere**

*Halogens free devices*

**FEATURES**

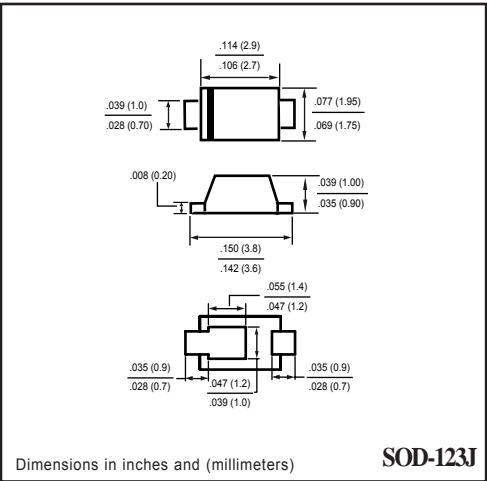
- \* For surface mounted applications
- \* Metal silicon junction, majority carrier conduction
- \* Low power loss, high efficiency
- \* High current capability, low forward voltage drop
- \* High surge capability
- \* For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

**MARKING**

\* 26



**SOD-123J**



Dimensions in inches and (millimeters)

**SOD-123J**

**CIRCUIT**



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

RATINGS	SYMBOL	CHSBFJGP	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	60	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	42	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	60	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 1)	C <sub>J</sub>	110	pF
Typical Thermal Resistance	R <sub>θJL</sub>	65	°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	CHSBFJGP	UNITS
Maximum Instantaneous Forward Voltage at 2.0 A DC	V <sub>F</sub>	0.65	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	500	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

2013-03

## RATING CHARACTERISTIC CURVES ( CHSBFJGP )

FIG. 1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

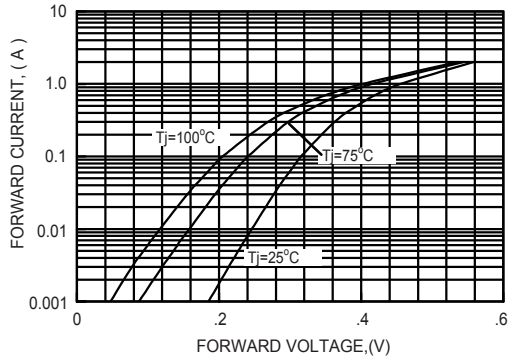


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

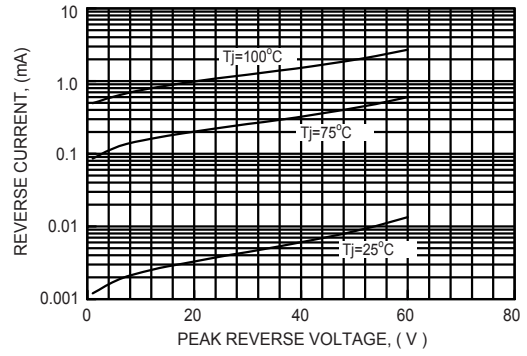


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

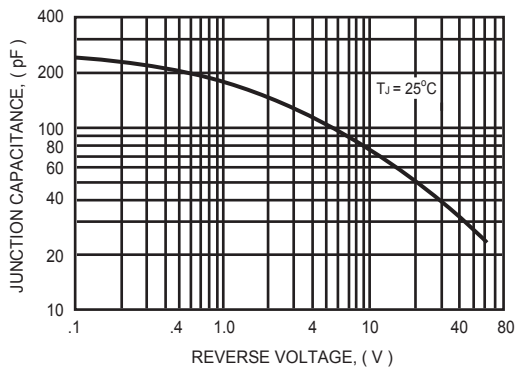


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

