

# CHENMKO ENTERPRISE CO.,LTD

### **CHSBDJGP**

## **SURFACE MOUNT**

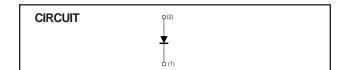
SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 40 Volts CURRENT 2.0 Amperes

#### **FEATURES**

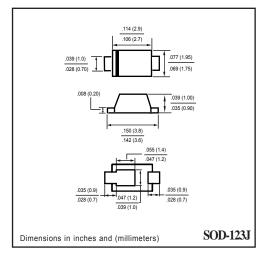
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
  For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

#### **MARKING**

\* 24







#### MAXIMUM RATINGES ( At TA = 25°C unless otherwise noted )

| RATINGS   | SYMBOL | CHSBDJGP    | UNITS |
|---|--------|-------------|-------|
| Maximum Recurrent Peak Reverse Voltage  | VRRM   | 40          | Volts |
| Maximum RMS Voltage   | VRMS   | 28          | Volts |
| Maximum DC Blocking Voltage   | VDC    | 40          | Volts |
| Maximum Average Forward Rectified Current   | lo     | 2.0         | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM   | 40          | Amps  |
| Typical Junction Capacitance (Note 1)   | Cı     | 200         | pF    |
| Typical Thermal Resistance  | RθJL   | 65          | °C/W  |
| Operating Temperature Range   | TJ     | -65 to +125 | °C    |
| Storage Temperature Range   | Тѕтс   | -65 to +150 | °C    |

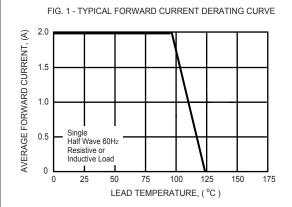
#### ELECTRICAL CHARACTERISTICS ( At TA = 25°C unless otherwise noted )

| CHARACTERISTICS                                   | SYMBOL | CHSBDJGP | UNITS |
|---|--------|----------|-------|
| Maximum Instantaneous Forward Voltage at 2.0 A DC | VF     | 0.5      | Volts |
| Maximum Average Reverse Current at VR= 40V        | lr     | 500      | uAmps |

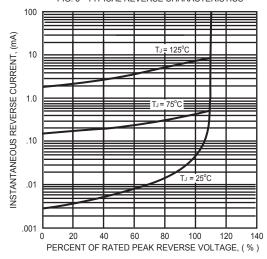
NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2013-03

# RATING CHARACTERISTIC CURVES (CHSBDJGP)







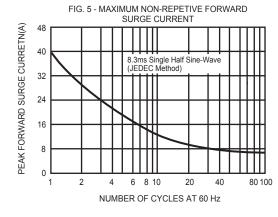


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

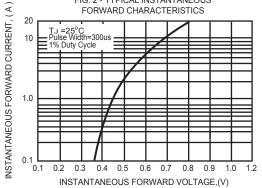


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

