



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 40 Volts CURRENT 1 Ampere

CHS0140HLGP

APPLICATION

\* For low-loss, fast-recovery, meter protection, bias isolation and clamping applications

FEATURE

- \* Small surface mounting type. (SOD-323A)
- \* Low VF. (VF=0.53V Max.)
- \* Medium current Schottky rectifier diode

CONSTRUCTION

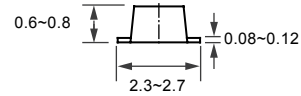
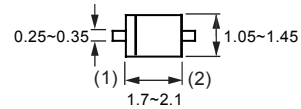
\* Silicon epitaxial planar

MARKING

\* J



SOD-323A



Dimensions in millimeters

SOD-323A

CIRCUIT



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

| RATINGS                                                                                           | SYMBOL  | CHS0140HLGP | 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                                                         | IO      | 1.0         | Amps   |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM    | 20          | Amps   |
| Typical Junction Capacitance (Note 2)                                                             | CJ      | 110         | pF     |
| Typical Thermal Resistance                                                                        | R θJA   | 90          | °C / W |
| Operating and Storage Temperature Range                                                           | TJ,TSTG | -55 to +125 | °C     |

ELECTRICAL CHARACTERISTICS ( At TA = 25°C unless otherwise noted )(Note 3)

| CHARACTERISTICS                                |              |    | CHS0140HLGP | UNITS |
|------------------------------------------------|--------------|----|-------------|-------|
| Maximum Instantaneous Forward Voltage at IF=1A |              | VF | 0.53        | Volts |
| Maximum Average Reverse Current at VR=40V      | @ TA = 25°C  | IR | 200         | uAmps |
|                                                | @ TA = 100°C |    | 9           | 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.  
3.Short pulse test used to minimize self-heating effect.

2014-03

# RATING CHARACTERISTIC CURVES ( CHS0140HLGP )

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

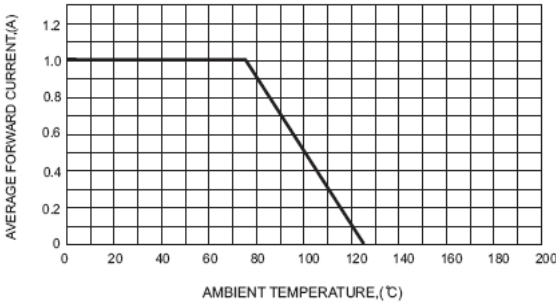


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

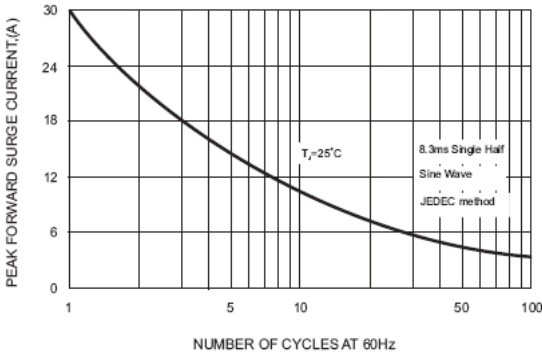


FIG.4-TYPICAL JUNCTION CAPACITANCE

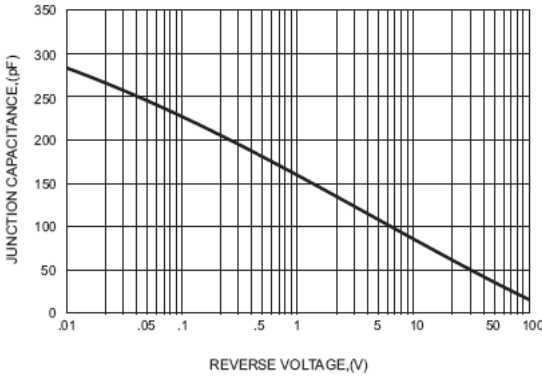


FIG.2-TYPICAL FORWARD CHARACTERISTICS

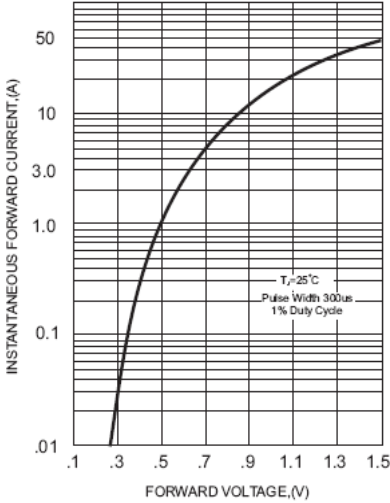


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

