



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volts CURRENT 0.5 Ampere

CH551G6-30GP

APPLICATION

- * Ultra high-speed switching
- * Voltage clamping
- * Protection circuit
- * Low current rectification
- * Low power consumption applications

FEATURE

- * Small surface mounting type. (SOD-882)
- * Ultra low VF. (VF=0.45V Typ. at 0.5A)
- * High reliability

CONSTRUCTION

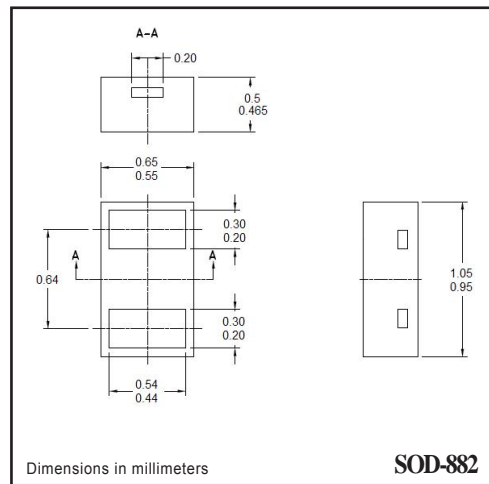
- * Silicon epitaxial planar

MARKING

*X

SOD-882

CIRCUIT



SOD-882

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

RATINGS	SYMBOL	CH551G6-30GP	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	30	Volts
Maximum RMS Voltage	VRMS	21	Volts
Maximum DC Blocking Voltage	VDC	30	Volts
Maximum Average Forward Rectified Current	Io	0.5	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	IFSM	3.0	Amps
Maximum Operating Temperature Range	TJ	+150	°C
Storage Temperature Range	TSTG	-65 to +150	°C

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

CHARACTERISTICS	SYMBOL	CH551G6-30GP	UNITS
Maximum Instantaneous Forward Voltage at If(1)= 100mA	Vf(1)	0.36	Volts
Maximum Instantaneous Forward Voltage at If(2)= 500mA	Vf(2)	0.54	Volts
Maximum Average Reverse Current at VR= 10V	IR	100	uAmps

RATING CHARACTERISTIC CURVES (CH551G6-30GP)

● **Electrical characteristic curves** (Ta = 25°C)

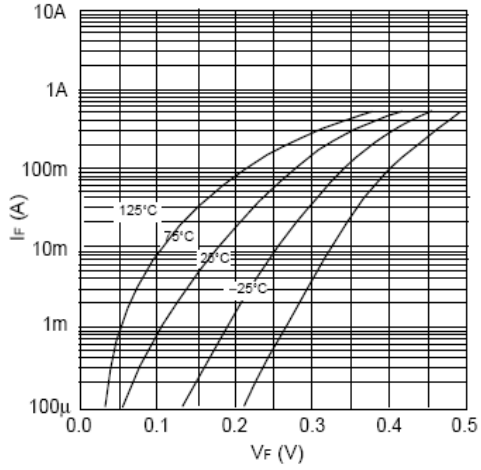


Fig.1 Forward current as a function of forward voltage(typical values)

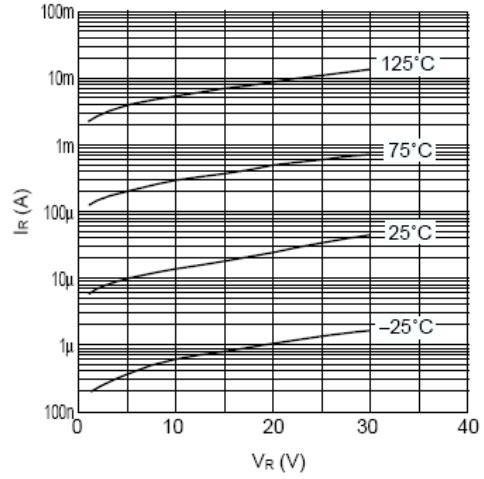


Fig.2 Reverse current as a function of reverse voltage(typical values)

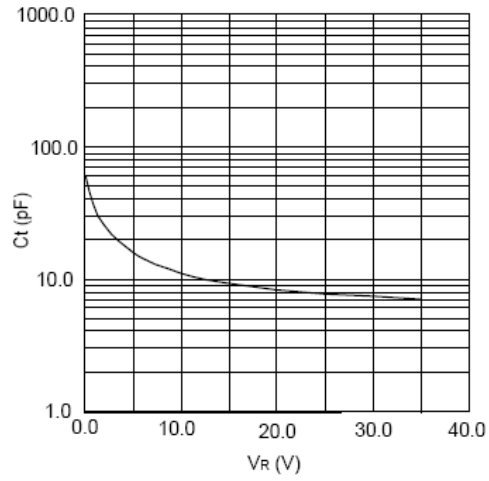


Fig.3 Diode capacitance as a function of reverse voltage(typical values)