



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volts CURRENT 0.2 Ampere

CH521S-30PT

APPLICATION

- * Low current rectification and high speed switching

FEATURE

- * Extremely small surface mounting type. (SC-79/SOD-523)
- * $I_o=200\text{mA}$ guaranteed despite size
- * Low V_F . ($V_F=0.40\text{V}$ Typ. at 200mA)

CONSTRUCTION

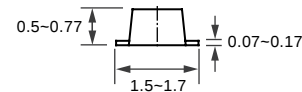
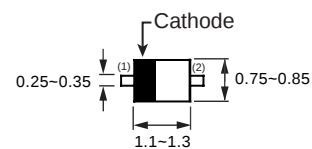
- * Silicon epitaxial planar

MARKING

- * C



SC-79/SOD-523



Dimensions in millimeters

SC-79/SOD-523

CIRCUIT



MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	CH521S-30PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	Volts
Maximum RMS Voltage	V_{RMS}	21	Volts
Maximum DC Blocking Voltage	V_{DC}	30	Volts
Maximum Average Forward Rectified Current	I_o	0.2	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	I_{FSM}	1.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	14	pF
Maximum Operating Temperature Range	T_J	+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 to +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	CH521S-30PT	UNITS
Maximum Instantaneous Forward Voltage at $I_F=200\text{mA}$	V_F	0.50	Volts
Maximum Average Reverse Current at $V_R=10\text{V}$	I_R	30.0	μAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 1.0 volts.
2. ESD sensitive product handling required.

2002-5

RATING CHARACTERISTIC CURVES (CH521S-30PT)

FIG. 1 - FORWARD CHARACTERISTICS

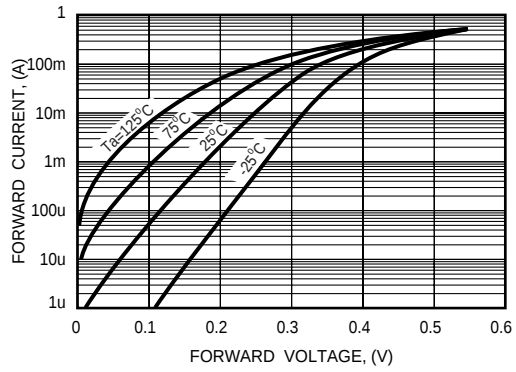


FIG. 2 - REVERSE CHARACTERISTICS

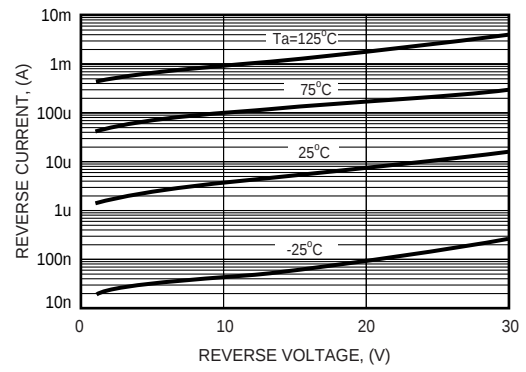


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

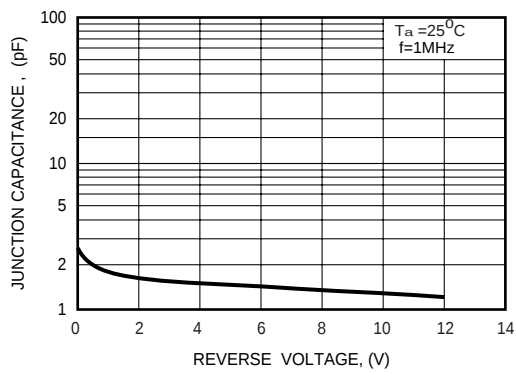


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

