



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT
SCHOTTKY BARRIER DIODE
 VOLTAGE 30 Volts CURRENT 0.2 Ampere

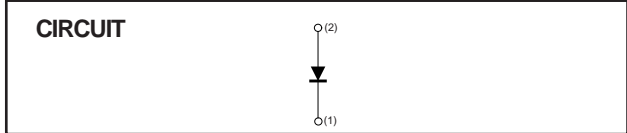
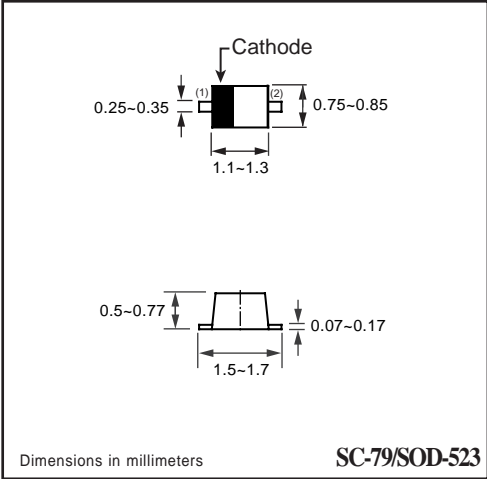
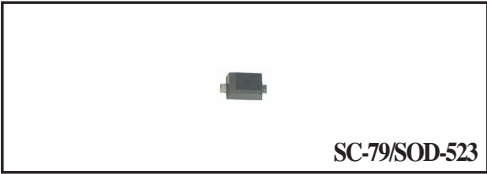
CH521S-30GP

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 VF. (VF=0.40V Typ. at 200mA)

CONSTRUCTION
 * Silicon epitaxial planar

MARKING
 * C



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

RATINGS	SYMBOL	CH521S-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	I_o	0.2	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	IFSM	1.0	Amps
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-30GP	UNITS
Maximum Instantaneous Forward Voltage at $I_f=200\text{mA}$	VF	0.50	Volts
Maximum Average Reverse Current at $V_R=10\text{V}$	IR	30.0	uAmps

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

RATING CHARACTERISTIC CURVES (CH521S-30GP)

FIG. 1 - FORWARD CHARACTERISTICS

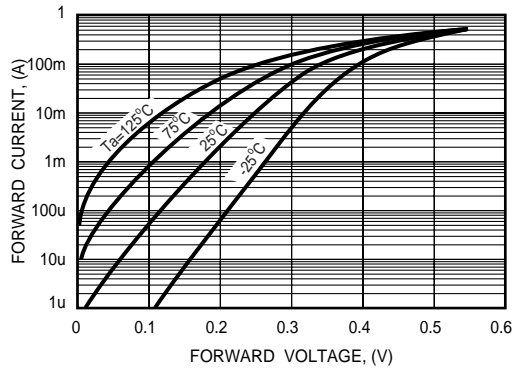


FIG. 2 - REVERSE CHARACTERISTICS

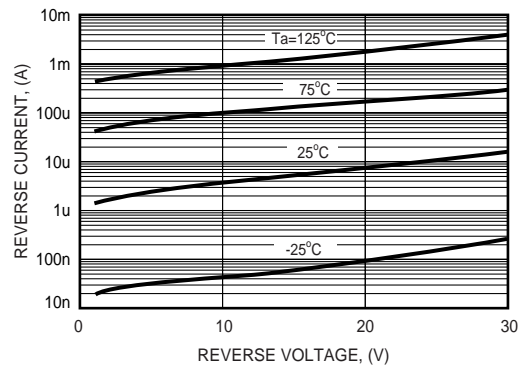


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

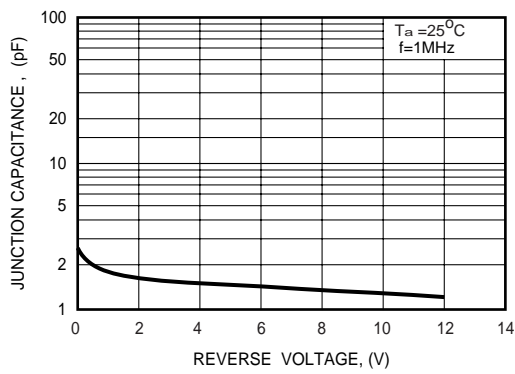


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

