



# CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

**SURFACE MOUNT**  
**SCHOTTKY BARRIER DIODE**  
 VOLTAGE 30 Volts CURRENT 0.2 Ampere

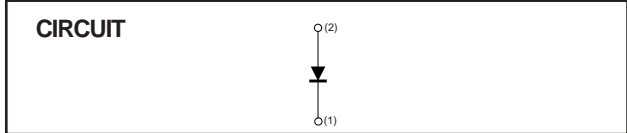
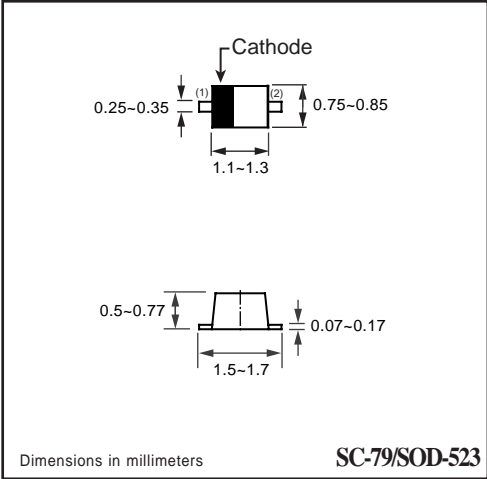
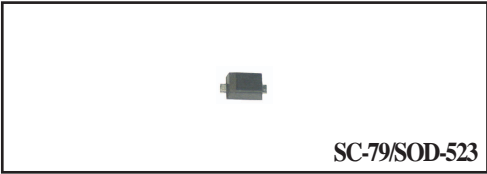
**CH521S-30GP**

**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

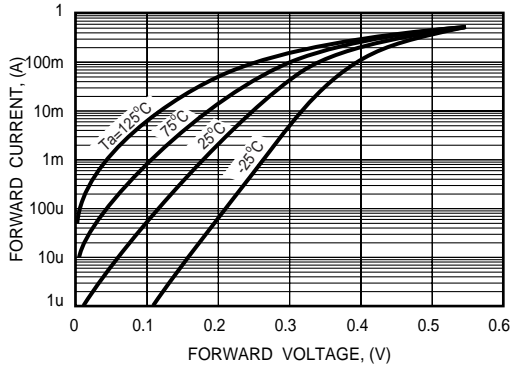


FIG. 2 - REVERSE CHARACTERISTICS

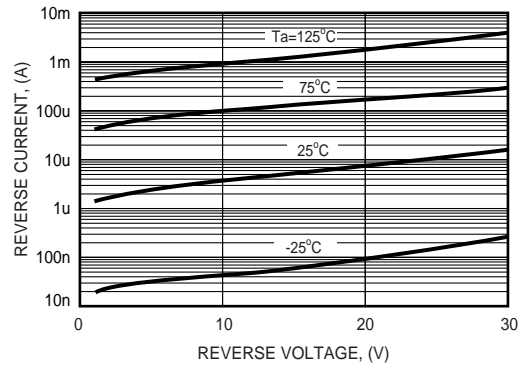


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

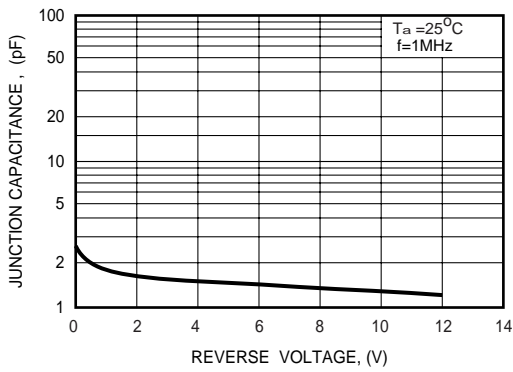


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

