



# CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

**SURFACE MOUNT**  
**SCHOTTKY BARRIER DIODE**  
 VOLTAGE 40 Volts CURRENT 0.1 Ampere

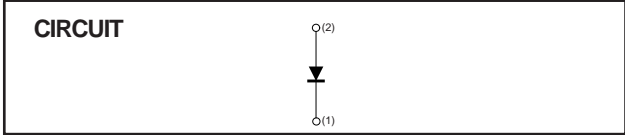
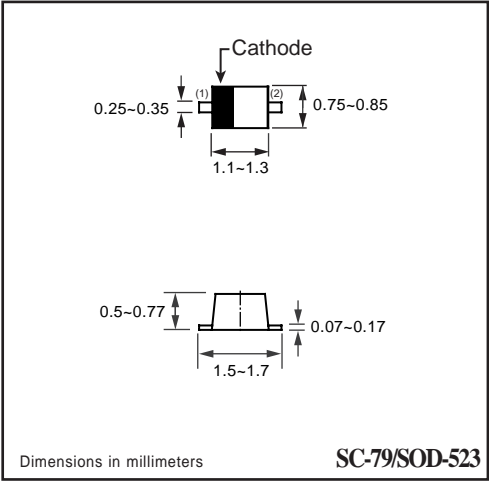
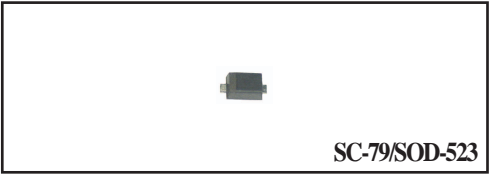
**CH621S-40GP**

**APPLICATION**  
 \* Low current rectification and high speed switching

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

**CONSTRUCTION**  
 \* Silicon epitaxial planar

**MARKING**  
 \* E



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

RATINGS	SYMBOL	CH621S-40GP	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	$I_o$	0.1	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	IFSM	1.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	CJ	2.0	pF
Maximum Operating Temperature Range	TJ	+125	$^\circ C$
Storage Temperature Range	TSTG	-40 to +125	$^\circ C$

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

CHARACTERISTICS	SYMBOL	CH621S-40GP			UNITS
Maximum Instantaneous Forward Voltage	VF	0.28 at $I_F = 1mA$	0.36 at $I_F = 10mA$	0.60 at $I_F = 50mA$	Volts
Maximum Average Reverse Current at $V_R = 10V$	IR	5.0			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 ( CH621S-40GP )

FIG. 1 - FORWARD CHARACTERISTICS

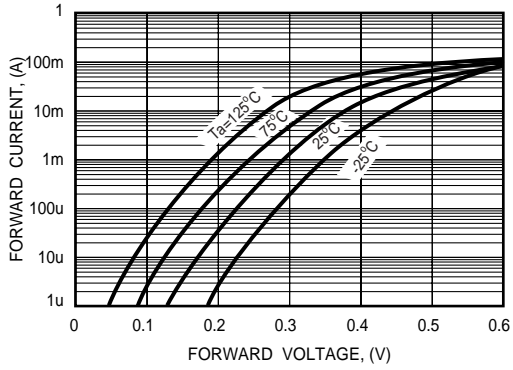


FIG. 2 - REVERSE CHARACTERISTICS

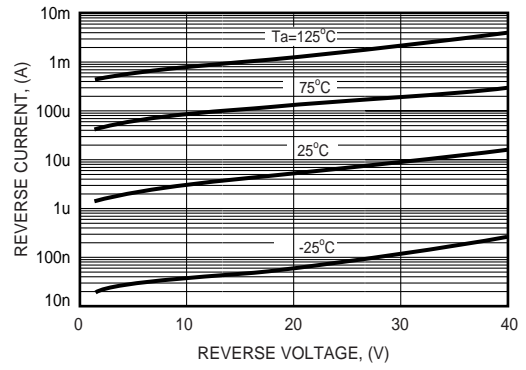


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

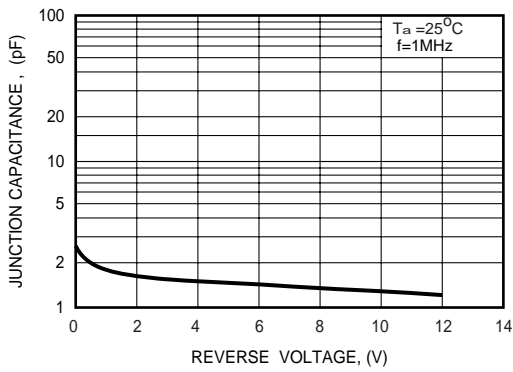


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

