CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 40 Volts CURRENT 0.1 Ampere

CH621S-40PT

Lead free devices

APPLICATION

* Low current rectification and high speed switching

FEATURE

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

CONSTRUCTION

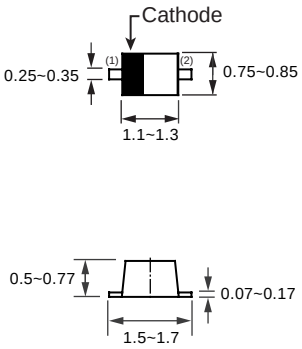
* Silicon epitaxial planar

MARKING

* E

CIRCUIT

SC-79/SOD-523



Dimensions in millimeters

SC-79/SOD-523

MAXIMUM RATINGES (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	CH621S-40PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	Volts
Maximum RMS Voltage	V_{RMS}	28	Volts
Maximum DC Blocking Voltage	V_{DC}	40	Volts
Maximum Average Forward Rectified Current	I_O	0.1	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	2.0	pF
Maximum Operating Temperature Range	T_J	+125	°C
Storage Temperature Range	T_{STG}	-40 to +125	°C

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

CHARACTERISTICS	SYMBOL	CH621S-40PT			UNITS
Maximum Instantaneous Forward Voltage	V_F	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	I_R	5.0			uAmps

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

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RATING CHARACTERISTIC CURVES (CH621S-40PT)

FIG. 1 - FORWARD CHARACTERISTICS

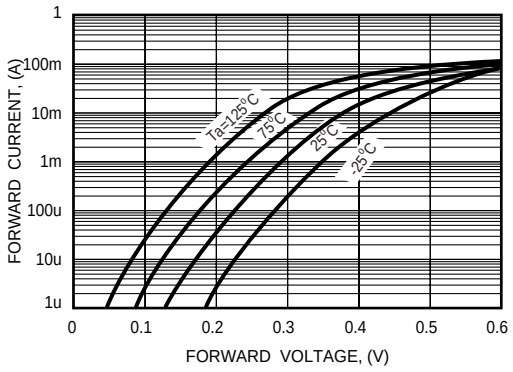

FIG. 2 - REVERSE CHARACTERISTICS

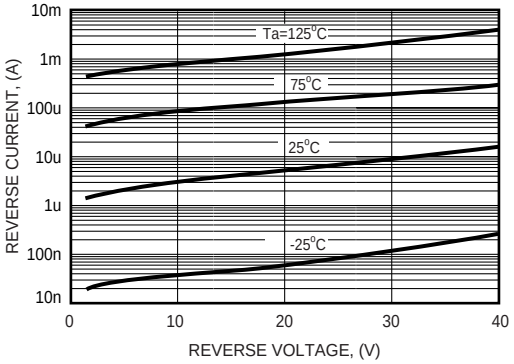

FIG. 3 - TYPICAL JUNCTION CAPACITANCE

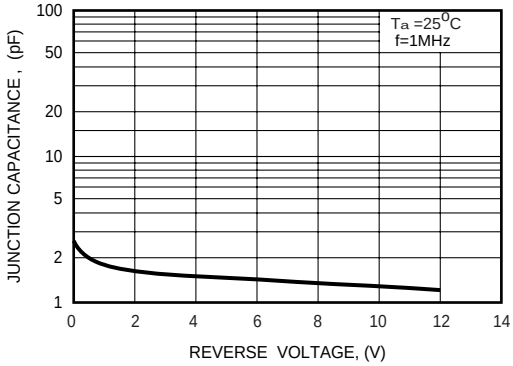

FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE