



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 70 Volts CURRENT 0.1 Ampere

CH601G-70PT

Lead free devices

APPLICATION

* Low power rectification

FEATURE

* Small surface mounting type. (SOD-723)

* High reliability

CONSTRUCTION

* Silicon epitaxial planar

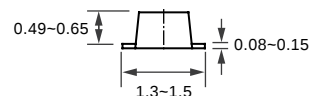
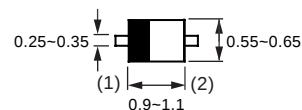
MARKING

* 4

CIRCUIT



SOD-723



Dimensions in millimeters

SOD-723

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

RATINGS	SYMBOL	CH601G-70PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	70	Volts
Maximum RMS Voltage	V_{RMS}	49	Volts
Maximum DC Blocking Voltage	V_{DC}	70	Volts
Maximum Average Forward Rectified Current	I_O	0.1	Amps
Peak Forward Surge Current at 10 mSec single half sine-wave	I_{FSM}	1.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	6.0	pF
Maximum Operating Temperature Range	T_J	-40 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^{\circ}\text{C}$

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

CHARACTERISTICS	SYMBOL	CH601G-70PT	UNITS
Maximum Instantaneous Forward Voltage at $I_F = 10\text{mA}$	V_F	0.77	Volts
Maximum Average Reverse Current at $V_R = 70\text{V}$	I_R	5	μAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 10.0 volts.
2. ESD sensitive product handling required.

2001-6

RATING CHARACTERISTIC CURVES (CH601G-70PT)

FIG. 1 - FORWARD CHARACTERISTICS

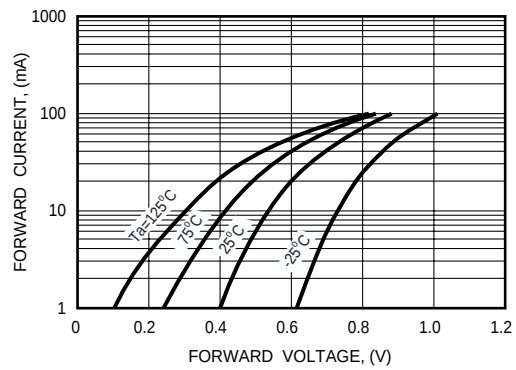


FIG. 2 - REVERSE CHARACTERISTICS

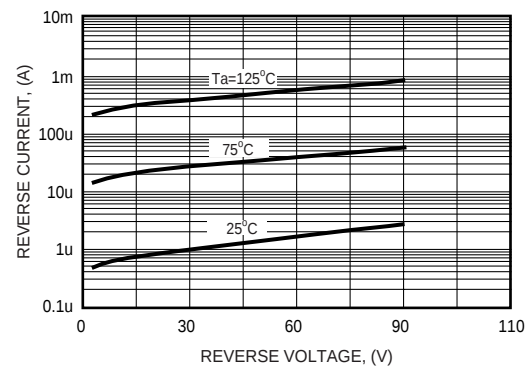


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

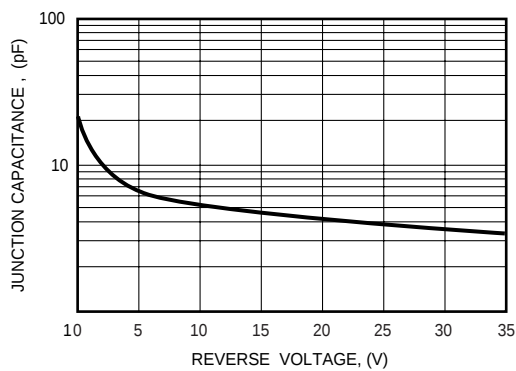


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

