CHENMKO ENTERPRISE CO.,LTD

CH501H-40PT

Lead free devices

SURFACE MOUNT
SCHOTTKY BARRIER DIODE
VOLTAGE 45 Volts CURRENT 0.1 Ampere

APPLICATION
* Low power rectification

FEATURE
* Small surface mounting type. (SC-76/SOD-323)
* Low VF. (VF=0.43V Typ. at 100mA)
* High reliability
* Lead free devices

CONSTRUCTION
* Silicon epitaxial planar

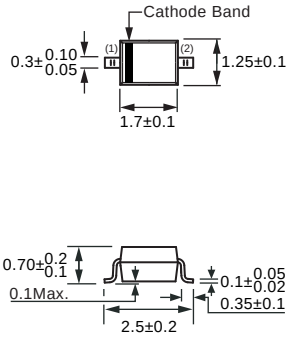
MARKING
* JS

CIRCUIT





SC-76/SOD-323



Dimensions in millimeters

SC-76/SOD-323

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

RATINGS	SYMBOL	CH501H-40PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	45	Volts
Maximum RMS Voltage	V_{RMS}	32	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	6.0	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	CH501H-40PT	UNITS
Maximum Instantaneous Forward Voltage at $I_F(1)$= 100mA	$V_F(1)$	0.55	Volts
Maximum Instantaneous Forward Voltage at $I_F(2)$= 10mA	$V_F(2)$	0.34	Volts
Maximum Average Reverse Current at V_R= 10V	I_R	30	uAmps

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

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RATING CHARACTERISTIC CURVES (CH501H-40PT)

FIG. 1 - FORWARD CHARACTERISTICS

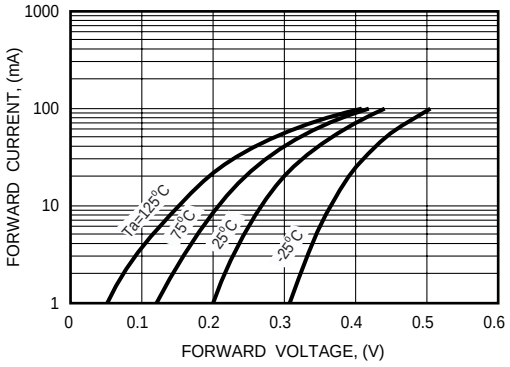


FIG. 2 - REVERSE CHARACTERISTICS

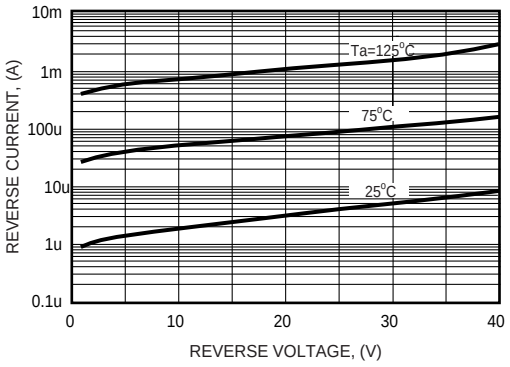


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

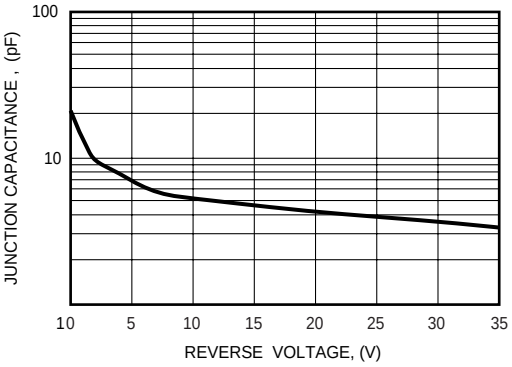


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE

