



CHENMKO ENTERPRISE CO.,LTD

CH301H-40PT

Lead free devices

SURFACE MOUNT
SCHOTTKY BARRIER DIODE
VOLTAGE 40 Volts CURRENT 0.12 Ampere

APPLICATION

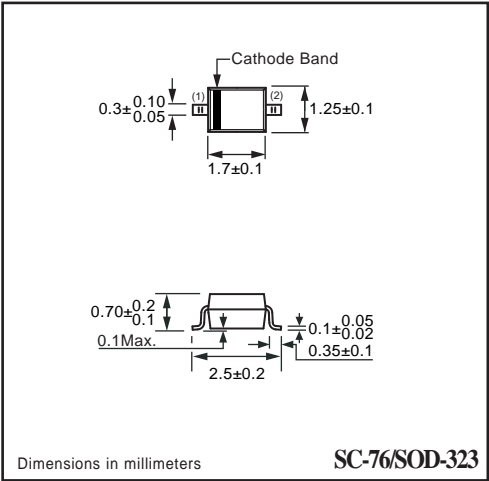
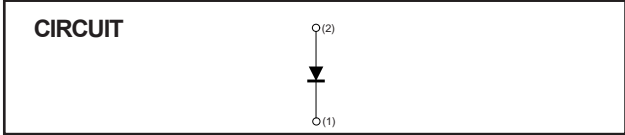
- * High speed switching for detection
- * Voltage clamping
- * Protection circuit

FEATURE

- * Small surface mounting type. (SC-76/SOD-323)
- * Low VF and low IR
- * High reliability
- * Low diode capacitance

CONSTRUCTION

- * Silicon epitaxial planar



MAXIMUM RATINGS (At Ta = 25°C unless otherwise noted)

RATINGS	SYMBOL	CH301H-40PT	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	Io	0.12	Amps
Repetitive Peak Forward Current at TP ≤ 1 Sec φ ≤ 0.5	IFRM	0.12	Amps
Non-Repetitive Peak Forward Current at TP < 10 mSec	IFSM	0.2	Amps
Typical Junction Capacitance between Terminal (Note 1)	CJ	5.0	pF
Typical Thermal Resistance from junction to ambient	RθJA	450	°C/W
Maximum Operating and Storage Temperature Range	TJ,TSTG	-65 to +150	°C

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

CHARACTERISTICS	SYMBOL	CH301H-40PT	UNITS
Maximum Instantaneous Forward Voltage	IF= 1mA	VF1	300
	IF= 10mA	VF2	380
	IF= 100mA	VF3	550
Maximum Average Reverse Current	VR= 30V	IR1	1.0
	VR= 40V	IR2	5.0

NOTES : 1. Measured at 1.0 MHz and reverse voltage of 0 volts.
 2. ESD sensitive product handling required.

2002-01

RATING CHARACTERISTIC CURVES (CH301H-40PT)

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FIG. 1 - FORWARD CHARACTERISTICS

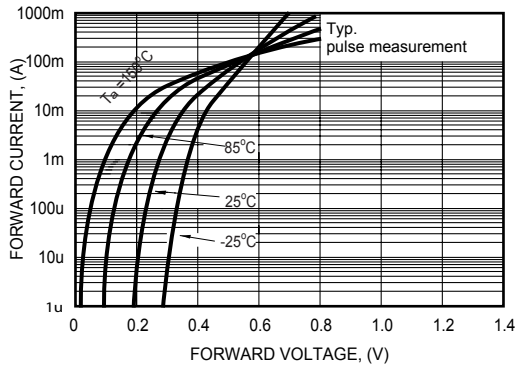


FIG. 2 - REVERSE CHARACTERISTICS

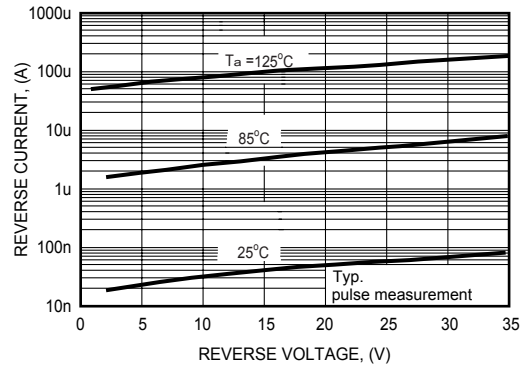


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

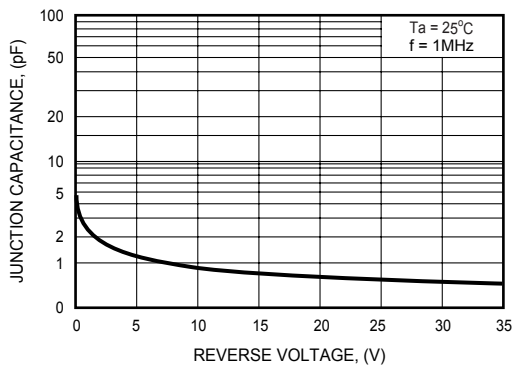


FIG. 4 - DIFFERENTIAL FORWARD RESISTANCE

