



# CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

## SURFACE MOUNT SCHOTTKY BARRIER DIODE VOLTAGE 30 Volts CURRENT 0.2 Ampere

CH351H-30GP

### 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

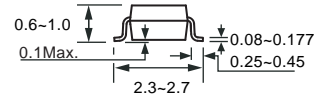
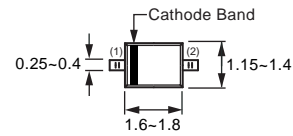
- \* Silicon epitaxial planar

### MARKING

- \* JV



SC-76/SOD-323



Dimensions in millimeters

SC-76/SOD-323

### CIRCUIT



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

RATINGS	SYMBOL	CH351H-30GP	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	30	Volts
Maximum RMS Voltage	VRMS	21	Volts
Maximum DC Blocking Voltage	Vdc	30	Volts
Maximum Average Forward Rectified Current	Io	0.2	Amps
Repetitive Peak Forward Current at TP ≤ 1 Sec φ ≤ 0.5	IFRM	0.3	Amps
Non-Repetitive Peak Forward Current at TP < 10 mSec	IFSM	0.6	Amps
Typical Junction Capacitance between Terminal (Note 1)	CJ	10.0	pF
Typical Thermal Resistance from junction to ambient	RθJA	450	°C/W
Maximum Operating and Storage Temperature Range	TJ,TSTG	-65 to +125	°C

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

CHARACTERISTICS	SYMBOL	CH351H-30GP	UNITS
Maximum Instantaneous Forward Voltage	IF= 1mA	VF1	300
	IF= 10mA	VF2	380
	IF= 100mA	VF3	550
Maximum Average Reverse Current	VR= 25V	Ir1	2.0
	VR= 30V	Ir2	10.0

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

2002-01

## RATING CHARACTERISTIC CURVES ( CH351H-30GP )

FIG. 1 - FORWARD CHARACTERISTICS

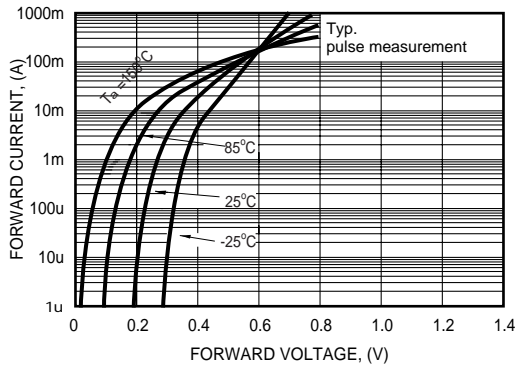


FIG. 2 - REVERSE CHARACTERISTICS

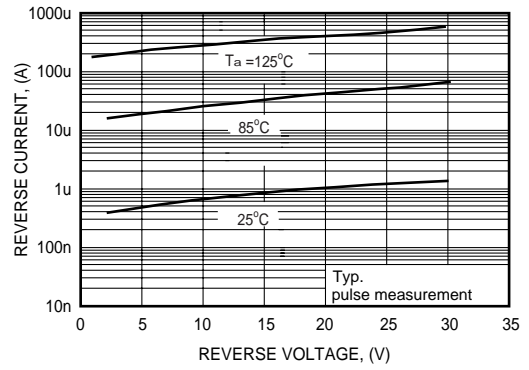


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

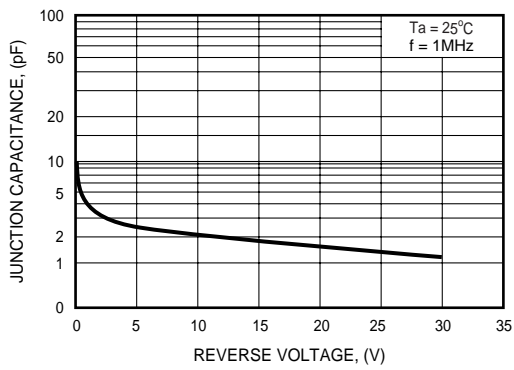


FIG. 4 - DIFFERENTIAL FORWARD RESISTANCE

