CHENMKO ENTERPRISE CO.,LTD

CH351H-30PT

SURFACE MOUNT
SCHOTTKY BARRIER DIODE
VOLTAGE 30 Volts CURRENT 0.2 Ampere

Lead free devices

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

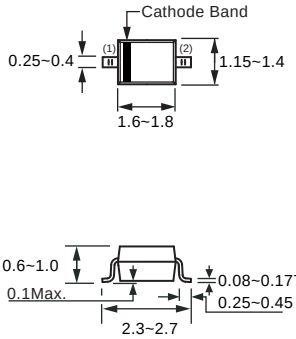
FEATURE
* Small surface mounting type. (SC-76/SOD-323)
* Low VF and low IR
* High reliability
* Low diode capacitance

CONSTRUCTION
* Silicon epitaxial planar

MARKING
* JU

CIRCUIT

SC-76/SOD-323



Dimensions in millimeters

SC-76/SOD-323

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

RATINGS	SYMBOL	CH351H-30PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	Volts
Maximum RMS Voltage	V_{RMS}	21	Volts
Maximum DC Blocking Voltage	V_{DC}	30	Volts
Maximum Average Forward Rectified Current	I_O	0.2	Amps
Repetitive Peak Forward Current at $T_P \leq 1$ Sec $\delta \leq 0.5$	I_{FRM}	0.3	Amps
Non-Repetitive Peak Forward Current at $T_P < 10$ mSec	I_{FSM}	0.6	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	10.0	pF
Typical Thermal Resistance from junction to ambient	$R\theta_{JA}$	450	°C/W
Maximum Operating and Storage Temperature Range	T_J,T_{STG}	-65 to +125	°C

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

CHARACTERISTICS		SYMBOL	CH351H-30PT	UNITS
Maximum Instantaneous Forward Voltage	I_F= 1mA	V_F1	300	mVolts
	I_F= 10mA	V_F2	380	
	I_F= 100mA	V_F3	550	
Maximum Average Reverse Current	V_R= 25V	I_R1	2.0	uAmps
	V_R= 30V	I_R2	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-30PT)

FIG. 1 - FORWARD CHARACTERISTICS

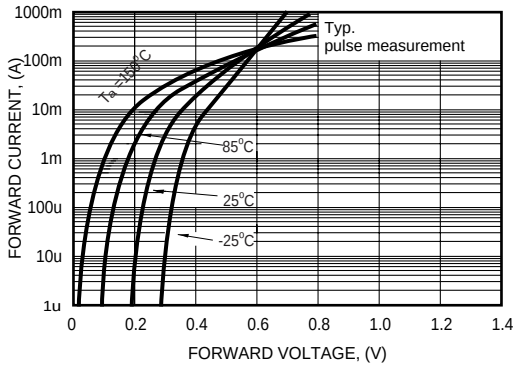


FIG. 2 - REVERSE CHARACTERISTICS

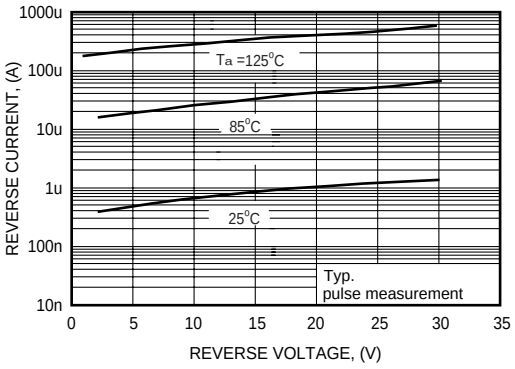


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

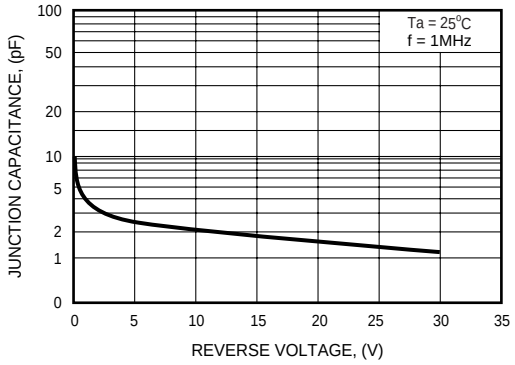


FIG. 4 - DIFFERENTIAL FORWARD RESISTANCE