



CHENMKO ENTERPRISE CO.,LTD

CH351H-30PT

Lead free devices

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volts CURRENT 0.2 Ampere

APPLICATION

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

FEATURE

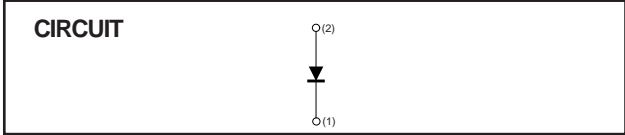
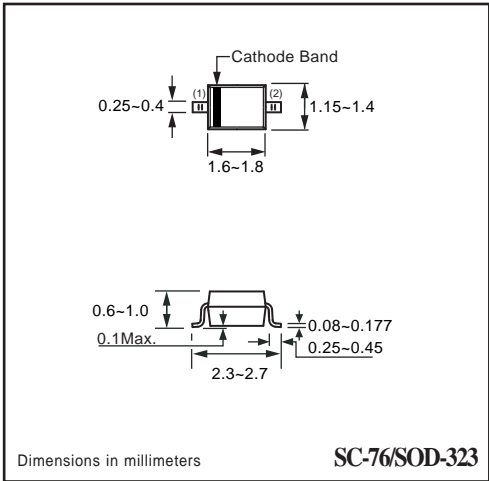
- * Small surface mounting type. (SC-76/SOD-323)
- * Low VF and low IR
- * High reliability
- * Low diode capacitance

CONSTRUCTION

- * Silicon epitaxial planar

MARKING

- * JU



MAXIMUM RATINGS (At $T_A = 25^{\circ}\text{C}$ 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 $T_P \leq 1 \text{ Sec } \phi \leq 0.5$	I_{FRM}	0.3	Amps
Non-Repetitive Peak Forward Current at $T_P < 10 \text{ mSec}$	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	$^{\circ}\text{C/W}$
Maximum Operating and Storage Temperature Range	$T_{J,TSTG}$	-65 to +125	$^{\circ}\text{C}$

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

CHARACTERISTICS	SYMBOL	CH351H-30PT	UNITS
Maximum Instantaneous Forward Voltage	$I_F = 1\text{mA}$	300	mVolts
	$I_F = 10\text{mA}$	380	
	$I_F = 100\text{mA}$	550	
Maximum Average Reverse Current	$V_R = 25\text{V}$	2.0	uAmps
	$V_R = 30\text{V}$	10.0	

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

RATING CHARACTERISTIC CURVES (CH351H-30PT)

FIG. 1 - FORWARD CHARACTERISTICS

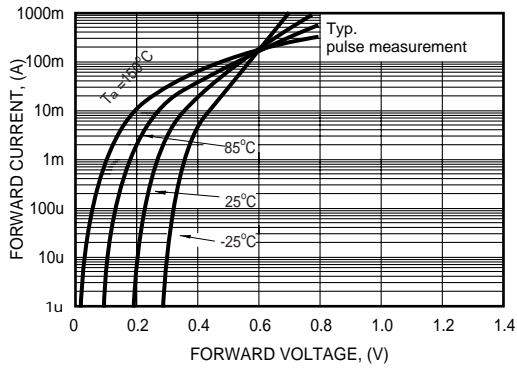


FIG. 2 - REVERSE CHARACTERISTICS

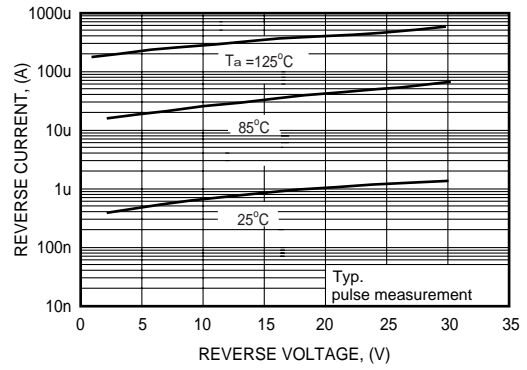


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

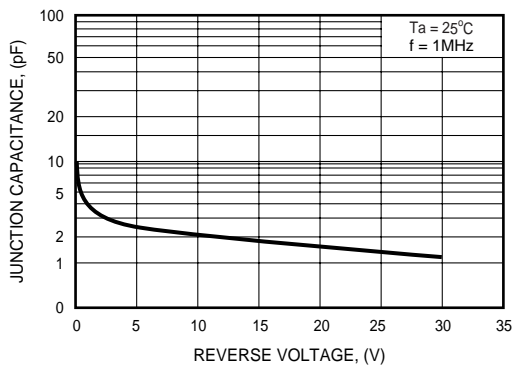


FIG. 4 - DIFFERENTIAL FORWARD RESISTANCE

