CHENMKO ENTERPRISE CO.,LTD

CH331H-10PT

SURFACE MOUNT
SCHOTTKY BARRIER DIODE
VOLTAGE 10 Volts CURRENT 3 Ampere

Lead free devices

APPLICATION
* Low power rectification
* For power supply
* For detection and step-up-conversion

FEATURE
* Small surface mounting type. (SC-76/SOD-323)
* Low IR. (IR=10uA Typ.)
* High reliability
* High current rectifier Schottky diode
  with low V_F drop
* Total power dissipation, Ptot= 1350 mW @TS = 28 ^{o}C.
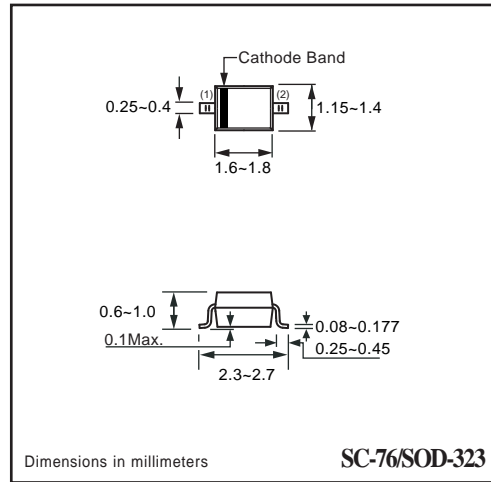
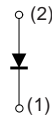### CONSTRUCTION
* Silicon epitaxial planar

MARKING
* JK

CIRCUIT

(2)

(1)

SC-76/SOD-323

Cathode Band

0.25~0.4 (1) (2) 1.15~1.4

1.6~1.8

0.6~1.0
0.1Max.
0.08~0.177
0.25~0.45
2.3~2.7

Dimensions in millimeters   **SC-76/SOD-323**

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

RATINGS	SYMBOL	CH331H-10PT			UNITS
		MIN.	TYP.	MAX.	
Maximum Recurrent Peak Reverse Voltage	VRRM	-	-	10	Volts
Maximum RMS Voltage	VRMS	-	-	7	Volts
Maximum DC Blocking Voltage	VDC	-	-	10	Volts
Maximum Average Forward Rectified Current	IO	-	-	3.0	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	IFSM	-	-	5	Amps
Typical Junction Capacitance between Terminal (Note 1)	CJ	12	25	30	pF
Maximum Operating Temperature Range	TJ	-	-	+150	^{o}C
Storage Temperature Range	TSTG	- 55	-	+150	^{o}C

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

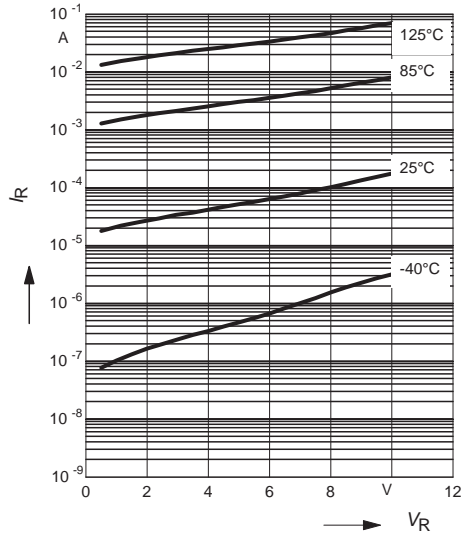| CHARACTERISTICS	SYMBOL	CH331H-10PT			UNITS
		MIN.	TYP.	MAX.	
Maximum Instantaneous Forward Voltage at IF= 10mA	VF	0.2	0.24	0.3	Volts
IF= 100mA		0.26	0.32	0.38	
IF= 500mA		0.32	0.4	0.5	
IF= 1000mA		0.36	0.48	0.6	
Maximum Average Reverse Current at VR= 5V @TA = 25°C	IR	-	40	50	uAmps
VR= 8V @TA = 25°C		-	75	100	

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 5.0 volts.
2. ESD sensitive product handling required.

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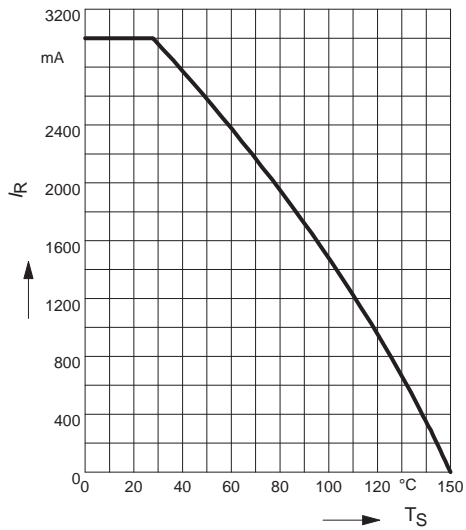# RATING CHARACTERISTIC CURVES (CH331H-10PT)

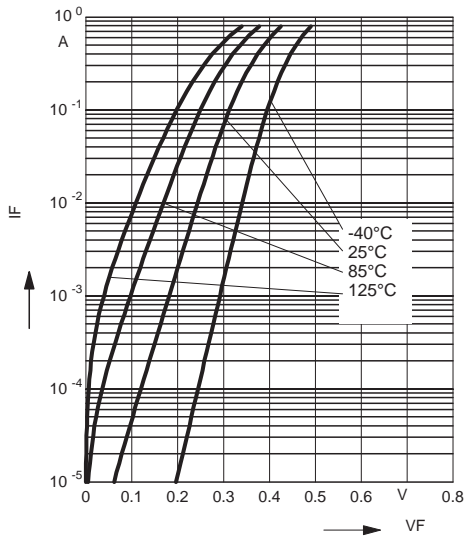**Reverse current** $I_R = f(V_R)$

T_A = Parameter

Forward current $I_F = f(T_S)$

Forward current $I_F = f(V_F)$

T_A = Parameter

Permissible Pulse Load

$I_{Fmax}/I_{FDC} = f(t_p)$

RATING CHARACTERISTIC CURVES (CH331H-10PT)

Permissible Puls Load $R_{thJS} = f(t_p)$