



# CHENMKO ENTERPRISE CO.,LTD

## SURFACE MOUNT

### SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 40 Volts CURRENT 350 mAmperes

Lead free devices

CH035H-20PT

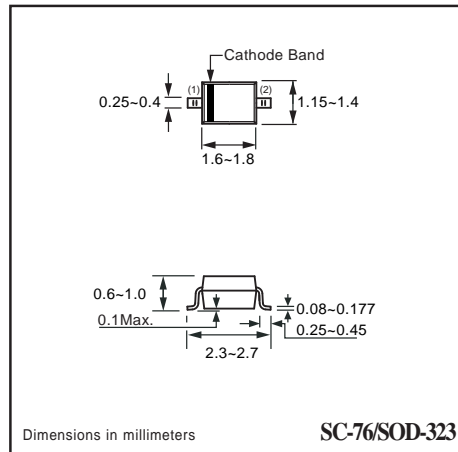
THRU

CH035H-40PT

**APPLICATION**  
\* Ultra high speed switching

**FEATURE**  
\* Small surface mounting type. (SC-76/SOD-323)  
\* High speed. ( $T_{RR}=10nSec$  Typ.)  
\* Maximum total power dissipation is 200mW.

**CONSTRUCTION**  
\* Silicon epitaxial planar



**CIRCUIT**

**MAXIMUM RATINGS** ( At  $T_A = 25^{\circ}C$  unless otherwise noted )

RATINGS	SYMBOL	CH035H-20PT	CH035H-30PT	CH035H-40PT	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	Volts
Maximum RMS Voltage	$V_{RMS}$	14	21	28	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	Volts
Forward Continuous Current	$I_{FM}$	350			mAmperes
Peak Forward Surge Current 1.0 S single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	1.5			Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	625			$^{\circ}C / W$
Total Capacitance (Note 2)	$C_T$	28			pF
Reverse Recovery Time at $I_F=I_R=200mA$ , $I_{rr}=20mA$	$T_{rr}$	10			nS
Operating Temperature Range	$T_J$	-55 to +125			$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-55 to +125			$^{\circ}C$

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

CHARACTERISTICS	SYMBOL	CH035H-20PT	CH035H-30PT	CH035H-40PT	UNITS
Maximum Instantaneous Forward Voltage	$V_F$		370		mVolts
			600		mVolts
Maximum Average Reverse Current at Rated DC Blocking Voltage	$I_R$	5.0			$\mu$ Amperes

NOTES : 1. Thermal Resistance ( Junction to Lead ) : PC Board Mounted on 0.2 X 0.2" ( 5 X 5mm ) copper pad area.  
2. Measured at 1.0 MHz and applied reverse voltage of 0 volts.

2004-06

## RATING CHARACTERISTIC CURVES ( CH035H-20PT THRU CH035H-40PT )

FIG. 1 - TYPICAL POWER DERATING CURVE

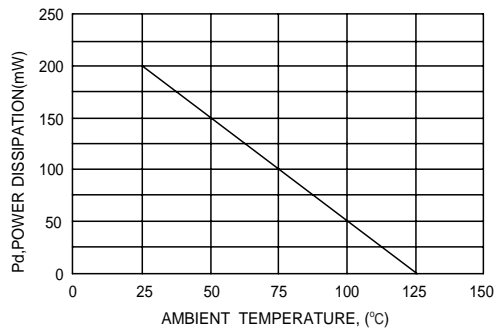


FIG. 2 - FORWARD CHARACTERISTICS

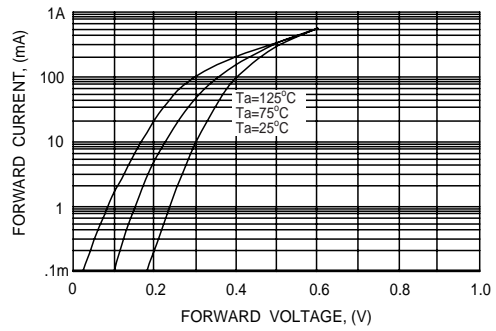


FIG. 3 - REVERSE CHARACTERISTICS

