



# CHENMKO ENTERPRISE CO.,LTD

## SURFACE MOUNT

### SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 40 Volts CURRENT 350 mAmperes

**CH320BPT**

**THRU**

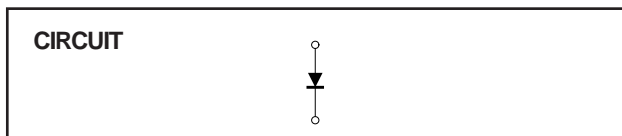
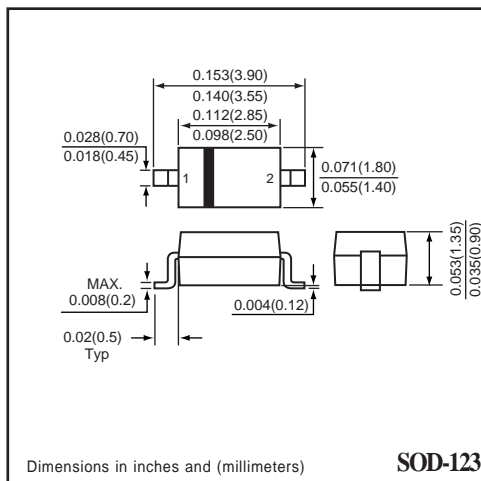
**CH340BPT**

*Lead free devices*

**APPLICATION**  
\* Ultra high speed switching

**FEATURE**  
\* Small surface mounting type. (SOD-123)  
\* High speed. (T<sub>RR</sub>=10nSec Typ.)  
\* Maximum total power dissipation is 400mW.

**CONSTRUCTION**  
\* Silicon epitaxial planar



**MAXIMUM RATINGS** ( At T<sub>A</sub> = 25°C unless otherwise noted )

RATINGS	SYMBOL	CH320BPT	CH330BPT	CH340BPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	Volts
Forward Continuous Current	I <sub>FM</sub>	350			mAmps
Peak Forward Surge Current 1.0 S single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	1.5			Amps
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	300			°C / W
Total Capacitance (Note 2)	C <sub>T</sub>	5.0			pF
Reverse Recovery Time at I <sub>F</sub> =I <sub>R</sub> =200mA , I <sub>rr</sub> =20mA	T <sub>rr</sub>	1.0			nS
Operating Temperature Range	T <sub>J</sub>	-55 to +125			°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +125			°C

**ELECTRICAL CHARACTERISTICS** ( At T<sub>A</sub> = 25°C unless otherwise noted )

CHARACTERISTICS	SYMBOL	CH320BPT	CH330BPT	CH340BPT	UNITS
Maximum Instantaneous Forward Voltage	@ I <sub>F</sub> = 20mA	370			mVolts
	@ I <sub>F</sub> = 200mA	600			mVolts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5.0			uAmps

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 ( CH320BPT THRU CH340BPT )

FIG. 1 - TYPICAL POWER DERATING CURVE

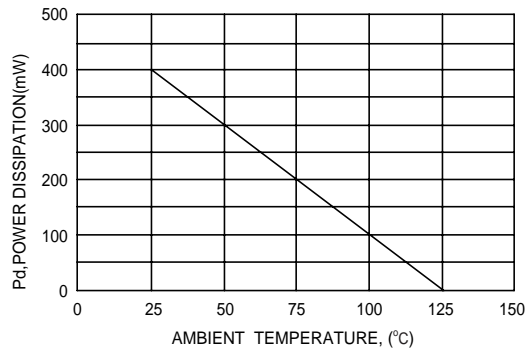


FIG. 2 - FORWARD CHARACTERISTICS

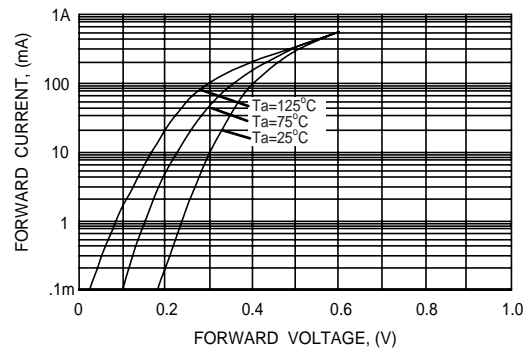


FIG. 3 - REVERSE CHARACTERISTICS

