



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

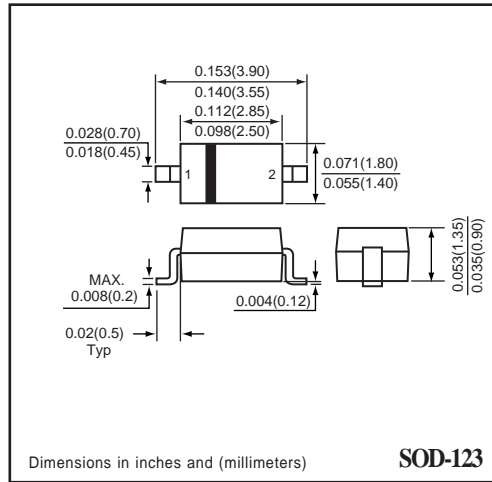
* Small surface mounting type. (SOD-123)
 * High speed. (T_{RR}=10nSec Typ.)
 * Maximum total power dissipation is 400mW.

CONSTRUCTION

* Silicon epitaxial planar



SOD-123



Dimensions in inches and (millimeters)

SOD-123

CIRCUIT



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

| RATINGS | SYMBOL | CH320BPT | CH330BPT | CH340BPT | 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 | | | mAmps |
| 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 _{θJA} | 300 | | | °C / W |
| Total Capacitance (Note 2) | C _T | 5.0 | | | pF |
| Reverse Recovery Time at I _F =I _R =200mA , I _{rr} =20mA | T _{rr} | 1.0 | | | nS |
| Operating Temperature Range | T _J | -55 to +125 | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +125 | | | °C |

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

| CHARACTERISTICS | SYMBOL | CH320BPT | CH330BPT | CH340BPT | UNITS |
|--|--------------------------|----------|----------|----------|--------|
| Maximum Instantaneous Forward Voltage | @ I _F = 20mA | 370 | | | mVolts |
| | @ I _F = 200mA | 600 | | | mVolts |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | I _R | 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.

RATING CHARACTERISTIC CURVES (CH320BPT THRU CH340BPT)

FIG. 1 - TYPICAL POWER DERATING CURVE

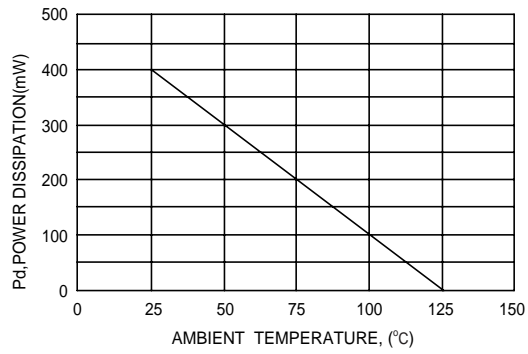


FIG. 2 - FORWARD CHARACTERISTICS

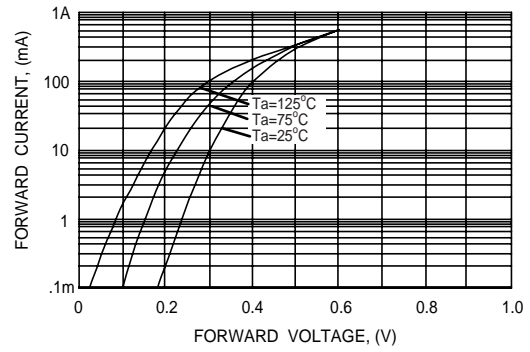


FIG. 3 - REVERSE CHARACTERISTICS

