



CHENMKO ENTERPRISE CO.,LTD

CH340RDWGP

Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volts CURRENT 350 mAmpere

APPLICATION

* Ultra high speed switching

FEATURE

- * Small surface mounting type. (SC-88/SOT-363)
- * High speed. (TRR=10nSec Typ.)
- * Suitable for high packing density.
- * Maximum total power dissipation is 200mW.

CONSTRUCTION

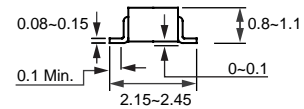
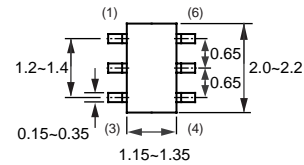
* Silicon epitaxial planar

MARKING

* RD1



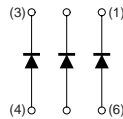
SC-88/SOT-363



Dimensions in millimeters

SC-88/SOT-363

CIRCUIT



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

| RATINGS | SYMBOL | CH340RDWGP | UNITS |
|---|-----------|-------------|-------|
| Maximum Non-Repetitive Peak Reverse Voltage | VRM | 40 | Volts |
| Maximum RMS Voltage | VRMS | 28 | Volts |
| Maximum Repetitive Peak Reverse and DC Blocking Voltage | VRRM, VDC | 40 | Volts |
| Forward Continuous Current | IFM | 350 | mAmps |
| Non-Repetitive Peak Forward Surge Current at 10mSec | IFSM | 1.0 | Amps |
| Typical Junction Capacitance between Terminal (Note 1) | CJ | 50 | pF |
| Maximum Reverse Recovery Time (Note 2) | TRR | 10 | nSec |
| Thermal Resistance Junction to Ambient (Note 3) | RθJA | 500 | °C/W |
| Maximum Operating and Storage Temperature Range | TJ, TSTG | -65 to +125 | °C |

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

| CHARACTERISTICS | SYMBOL | CH340RDWGP | UNITS |
|--|--------|------------|--------|
| Maximum Instantaneous Forward Voltage @IF=20mA @IF=100mA | VF | 370 500 | mVolts |
| Maximum Average Reverse Current @VR=10V @VR=30V | IR | 2.0 5.0 | uAmps |

- NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0 volts.
 2. Measured at applied forward current of 200mA and reverse current of 200mA.
 3. Device mounted on FR-4 by 1 inch X 0.85 inch X 0.062 inch
 4. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (CH340RDWGP)

FIG. 1 - TYPICAL POWER DERATING CURVE

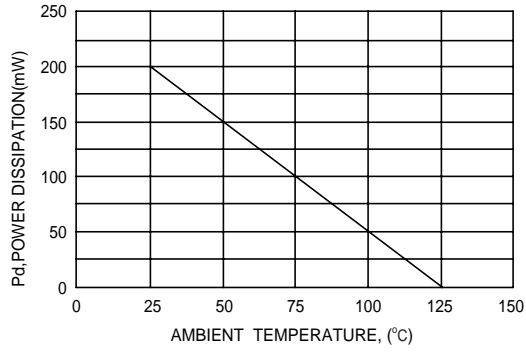


FIG. 2 - FORWARD CHARACTERISTICS

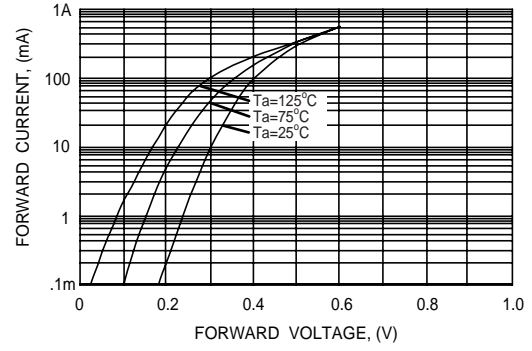


FIG. 3 - REVERSE CHARACTERISTICS

