



CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volts CURRENT 350 mAmpere

CH340RDWPT

Lead free devices

APPLICATION

- * Ultra high speed switching

FEATURE

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

CONSTRUCTION

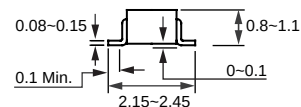
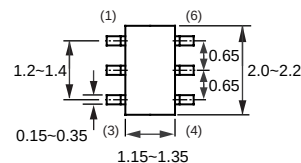
- * Silicon epitaxial planar

MARKING

- * RD1



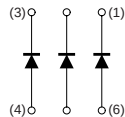
SC-88/SOT-363



Dimensions in millimeters

SC-88/SOT-363

CIRCUIT



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

RATINGS	SYMBOL	CH340RDWPT	UNITS
Maximum Non-Repetitive Peak Reverse Voltage	V_{RM}	40	Volts
Maximum RMS Voltage	V_{RMS}	28	Volts
Maximum Repetitive Peak Reverse and DC Blocking Voltage	V_{RRM}, V_{DC}	40	Volts
Forward Continuous Current	I_{FM}	350	mAmps
Non-Repetitive Peak Forward Surge Current at 10mSec	I_{FSM}	1.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	50	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	10	nSec
Thermal Resistance Junction to Ambient (Note 3)	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Maximum Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +125	$^\circ\text{C}$

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

CHARACTERISTICS	SYMBOL	CH340RDWPT	UNITS
Maximum Instantaneous Forward Voltage @ $I_F=20\text{mA}$ @ $I_F=100\text{mA}$	V_F	370 500	mVolts
Maximum Average Reverse Current @ $V_R=10\text{V}$ @ $V_R=30\text{V}$	I_R	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.

2004-06

RATING CHARACTERISTIC CURVES (CH340RDWPT)

FIG. 1 - TYPICAL POWER DERATING CURVE

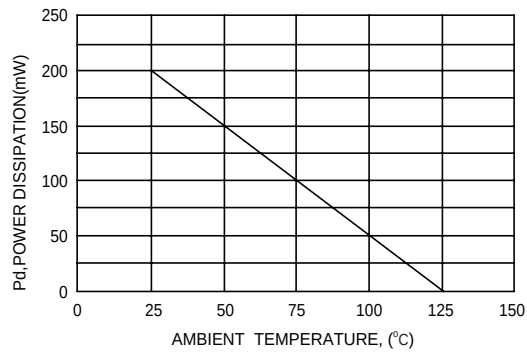


FIG. 2 - FORWARD CHARACTERISTICS

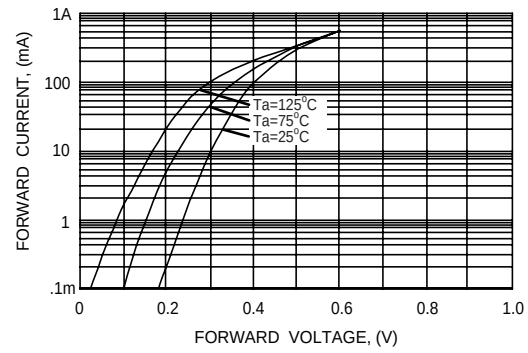


FIG. 3 - REVERSE CHARACTERISTICS

