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}=10nSec Typ.)
* Suitable for high packing density.
* Maximum total power disspation is 200mW.

CONSTRUCTION

* Silicon epitaxial planar

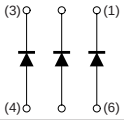
MARKING

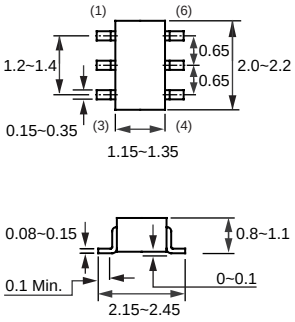
* RD1



SC-88/SOT-363

CIRCUIT





Dimensions in millimeters

SC-88/SOT-363

MAXIMUM RATINGES (At T_A = 25°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	°C/W
Maximum Operating and Storage Temperature Range	T_J,T_{STG}	-65 to +125	°C

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

CHARACTERISTICS		SYMBOL	CH340RDWPT	UNITS
Maximum Instantaneous Forward Voltage	@I_F=20mA @I_F=100mA	V_F	370 500	mVolts
Maximum Average Reverse Current	@V_R=10V @V_R=30V	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 froward 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

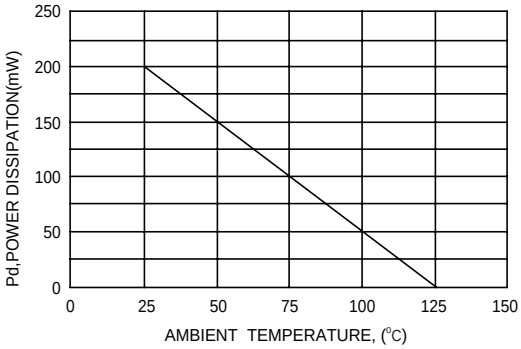


FIG. 2 - FORWARD CHARACTERISTICS

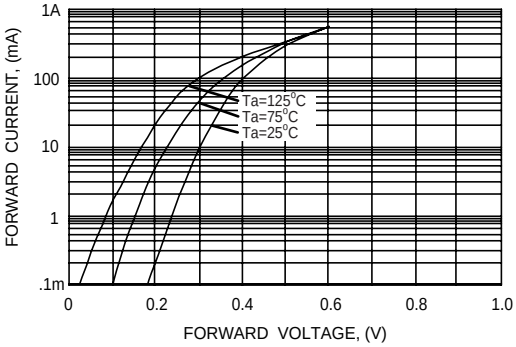


FIG. 3 - REVERSE CHARACTERISTICS

