

Features

- Operating voltage : 3.5~5.5V
- Few external components
- No start to turn on Relay without oscillation.
- TO-94 package

Ordering Information

Part Number	Package
PT8A2512NE	Lead free TO-94

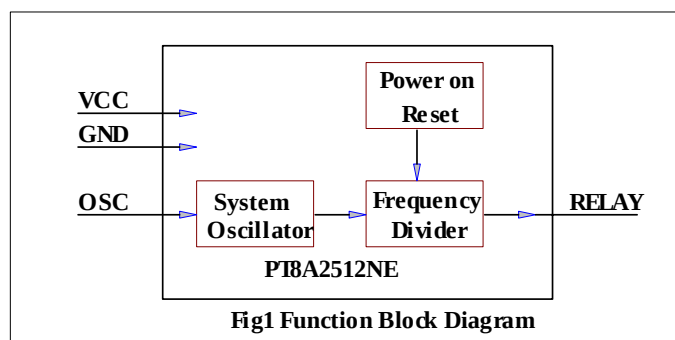
Description

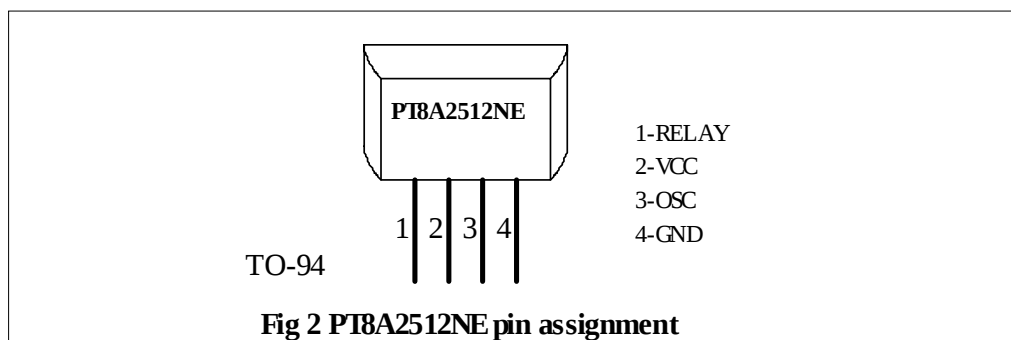
The PT8A2512NE is a CMOS LSI chip designed for simple toaster. It provides low cost solution for toaster. The chip is enclosed in a 4 pin TO-94.

Applications

- Toaster.

Block Diagram



Pin Assignment**Pin Description**

Name	Pin No.	Type	Description
RELAY	1	O	Relay control output, high active
VCC	2	-	Power supply
OSC	3	I/O	Input/output of RC oscillator
GND	4	-	GND

Function Description**System oscillator and Frequency divider**

It provides one-stop timer for Toaster after power on.

In general, Fosc=1KHz, RELAY will shut down after 30s.

Power on reset

Used to reset internal logic

Maximum Rating

Storage Temperature.....	- 25°C to +85°C
Supply Voltage to Ground Potential (Inputs & V _{CC} only).....	- 0.5 to +5.5V
Supply Voltage to Ground Potential (Outputs only)	- 0.5 to +5.5V
DC Input Voltage	- 0.5V to +5.5V
Output Current	20mA
Power Dissipation.....	500mW

Note:

Stresses greater than those listed under AXIMUM RATINGS may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect reliability.

Recommended Operating Conditions

Symbol	Pin	Description	Min	Typical	Max	Unit
V _{CC}	V _{CC}	Supply voltage	3.5	4	5.5	V
T _A	-	Operation Temperature	0	25	85	°C

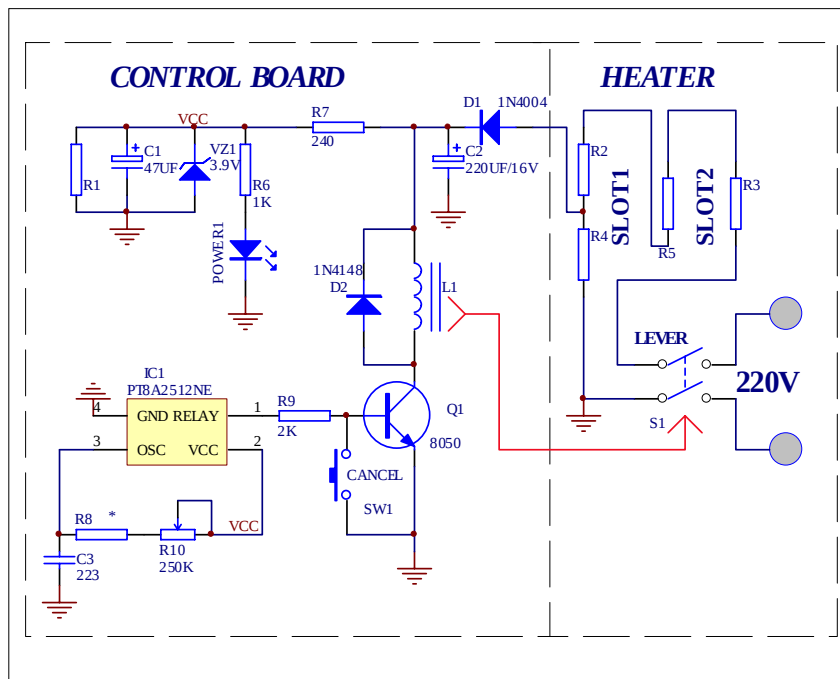
DC Electrical Characteristics(T_A = 0 ~ 85°C, unless otherwise noted)

Symbol	Description	Test Conditions	Min	Typical	Max	Unit
I _{OH}	Output source current	V _{CC} = 3.5V, V _{OH} =2.0V	-12	-	-	mA
I _{OL}	Output sink current	V _{CC} = 3.5V, V _{OL} =0.5V	0.5	-	-	mA
F _{OSC}	Frequency of oscillator	V _{CC} = 4.0V R _{osc} =56K,C _{osc} =223	952	1024	1096	Hz

AC Electrical Characteristics(T_A = 0 ~ 85°C, unless otherwise noted)

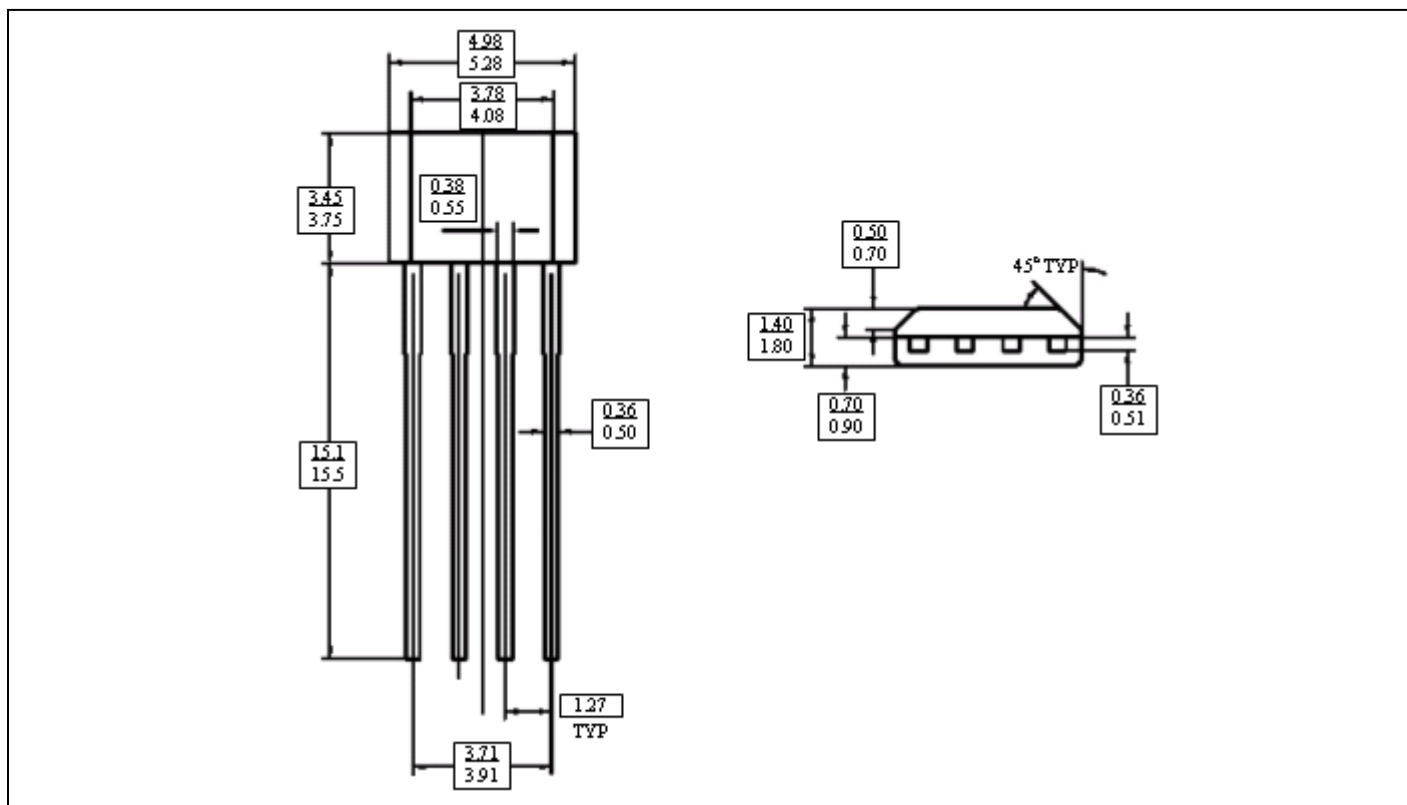
Symbol	Description	Test Conditions	Min	Typical	Max	Unit
I _{CC}	Current consumption	V _{CC} = 4.0V R _{osc} =56K,C _{osc} =223	-	-	100	uA

Application Circuit



Mechanical Information

TO-94



Notes

Pericom Technology Inc.

Email: support@pti.com.cn Web Site: www.pti.com.cn, www.pti-ic.com

China: No. 20 Building, 3/F, 481 Guiping Road, Shanghai, 200233, China
Tel: (86)-21-6485 0576 Fax: (86)-21-6485 2181

Asia Pacific: Unit 1517, 15/F, Chevalier Commercial Centre, 8 Wang Hoi Rd, Kowloon Bay, Hongkong
Tel: (852)-2243 3660 Fax: (852)- 2243 3667

U.S.A.: 3545 North First Street, San Jose, California 95134, USA
Tel: (1)-408-435 0800 Fax: (1)-408-435 1100

Pericom Technology Incorporation reserves the right to make changes to its products or specifications at any time, without notice, in order to improve design or performance and to supply the best possible product. Pericom Technology does not assume any responsibility for use of any circuitry described other than the circuitry embodied in Pericom Technology product. The company makes no representations that circuitry described herein is free from patent infringement or other rights, of Pericom Technology Incorporation.