

Features

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

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.

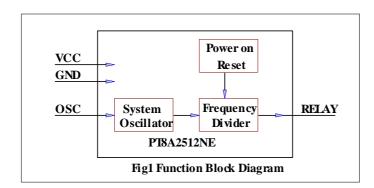
Ordering Information

Part Number	Package		
PT8A2512NE	Lead free TO-94		

Applications

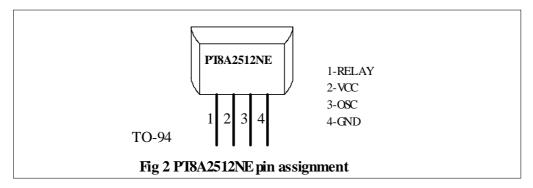
Toaster.

Block Diagram





Pin Assignment



Pin Description

Name	Pin No.	Type	Description	
RELAY	1	0	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

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

 $(T_A = 0 \sim 85$ °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
Fosc	Frequency of oscillator	V _{CC} = 4.0V Rosc=56K,Cosc=223	952	1024	1096	Hz

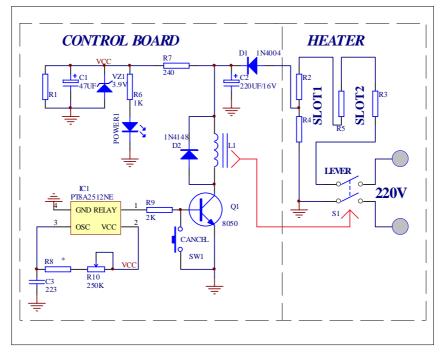
AC Electrical Characteristics

 $(T_A = 0 \sim 85^{\circ}C, \text{ unless otherwise noted})$

Symbol	Description	Test Conditions	Min	Typical	Max	Unit
I_{CC}	Current consumption	V _{CC} = 4.0V Rosc=56K,Cosc=223	-	-	100	uA

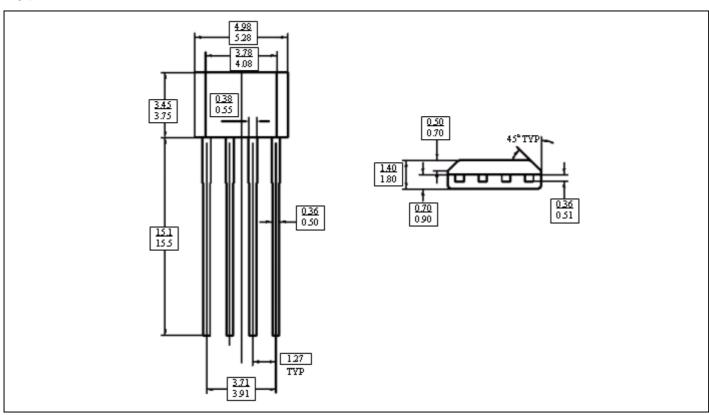


Application Circuit



Mechanical Information

TO-94





Notes

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