HS2260A Instruction Manual

Overview

HS2260A is a low-power general-purpose encoding circuit fabricated in CMOS process, each circuit has a user-configurable It is composed of flexible address code and data code, and the circuit has a power saving mode, which can be used forradio remote control andred outsideemission. Compatible with PT2260.

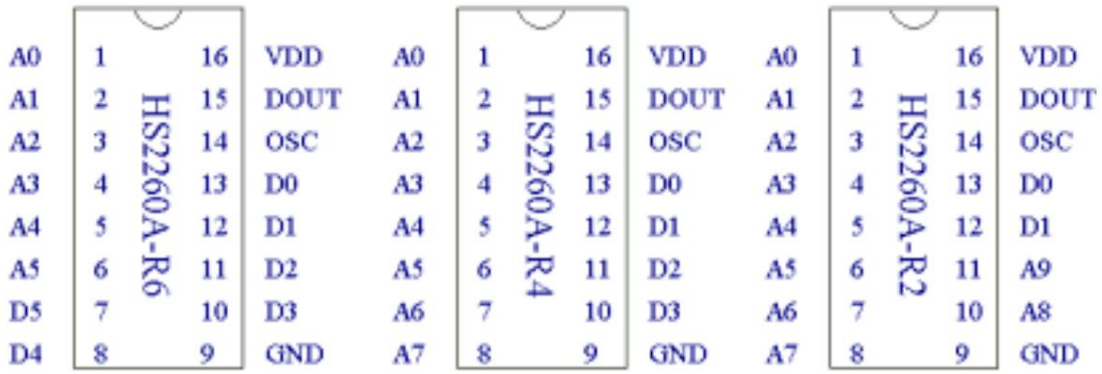
main feature

- z CMOS process manufacturing, low power consumption
- z Fewer circuit components for external application
- z Single-pin resistance oscillator circuit
- z Wide working voltage range: 3v~13v
- z Address codes up to 59,049
- z Radio and infrared remote control type
- z Available in a variety of packaging forms

Scope of application

- z Vehicle anti-theft system
- z Home security system
- z Remote control toys
- z Other industrial or home remote control

Pin Diagram



Product specification classification:

HS2260A -I/RX

R: RF Applications

IR: Infrared Applications

X: Number of key input pins (6, 4, 2)

Pin Description

Pin Name **Input/Output**	Say Bright
A0~Ax input address pins, used for address coding, can be set to "0", "1", "f" (floating),	
D0~Dx input data input terminal, if one of them is "1", the code will be sent, and the internal pull-down;	
Vcc	Input power positive terminal (+) input terminal;
Vss	Input power negative terminal (-) input terminal;
OSC	Input the input end of the single-ended resistance oscillator, and the resistance connected to the power supply determines the oscillation frequency;
Doubt	output code output terminal (normally low);

Function comparison table

model	address number of digits	data number of digits	radio Remote control application	Infrared Remote control application	most address code	decoder model	Package form
HS2260A-R6 6		6 ÿ 4 ÿ			729	HS2272-x6	SOP16, DIP16
HS2260A-R4 8					6,561	HS2272-x4	SOP16, DIP16
HS2260A-R2 10 2 ÿ					59,049	HS2272-x2	SOP16, DIP16
HS2260A-IR4 8		4		ÿ	6,561	HS2272-x4	SOP16, DIP16

X in the above table is M/L, M is data output transient type, L is data output latch type;

Limit parameters

Parameters	symbol	scope	unit
Power supply	Vcc	-0.3 ~ 13	IN
voltage Input	We	-0.3 ~ Vcc+0.3	IN
voltage Output	Vo	-0.3 ~ Vcc+0.3	IN
voltage Maximum power consumption	Well	300	mW
(Vcc=12V) Operating	Topr	-20 ~ +70	ÿ
temperature Storage temperature	Tstg	-40 ~ +125	ÿ

Electrical parameters (unless otherwise specified, temp=25ÿ, Vcc=12V)

Parametric	Symbol	Test Conditions	Min	Typ	Max	Units
Supply voltage	Vcc		3		13	IN
Supply current	Icc	Oscillator stop			0.3	uA
Dout output Drive current	Ioh	Vcc=5VÿVoh=3V	-3			mA
		Vcc=8VÿVoh=4V	-6			mA
		Vcc=12VÿVoh=6V	-10			mA
Dout output Sink current	Iol	Vcc=5VÿVol=3V	2			mA
		Vcc=8VÿVol=4V	5			mA
		Vcc=12VÿVol=6V	9			mA

Application Notes

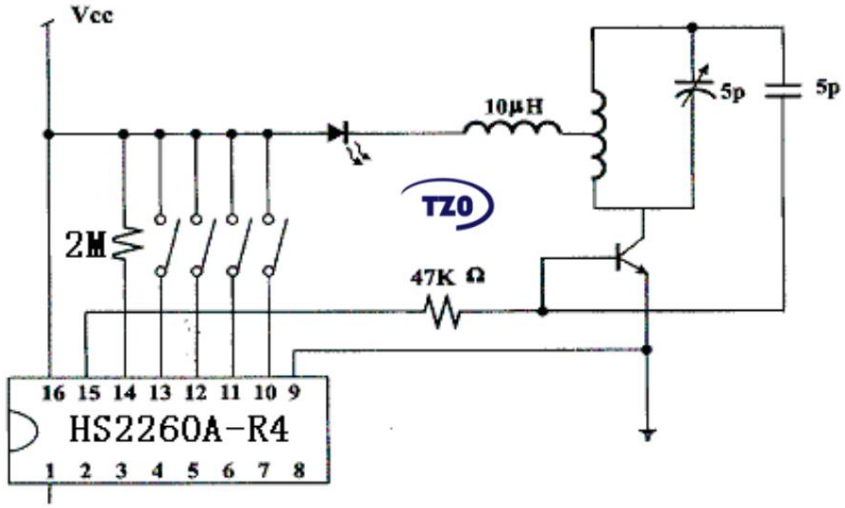
HS2260A Resistor R	HS2272C Resistor R
1.5M	110K
2.0M	150K
2.2M	160K
2.7M	220K
3.3M	240K
3.6M	270K
3.9M	300K
4.7M	360K
5.1M	390K
6.2M	470K
6.8M	510K
7.5M	560K
10M	750K

HS2260A Resistor R	PT2272 Resistor R
1.5M	120K
2.0M	160K
2.2M	180K
2.7M	220K
3.3M	270K
3.6M	300K
3.9M	300K
4.7M	360K
5.1M	390K
6.2M	510K
6.8M	560K
7.5M	620K
10M	820K

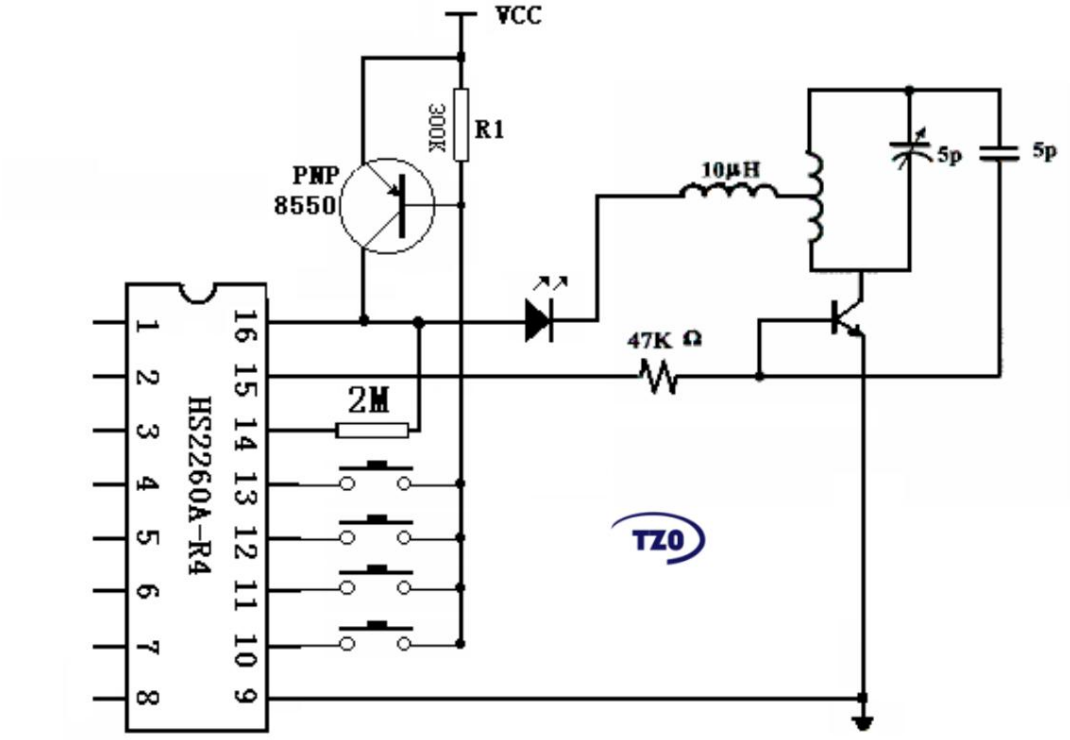
Note:

In specific applications, the external resistance can be adjusted appropriately according to the needs. The larger the resistance value, the slower the oscillation frequency.

The larger the encoding width is, the longer it takes to send a frame of code. Please adjust it flexibly according to your own needs when applying it;



UHF 频段四数据发射电路



In the triode application circuit, the resistor R1 should not be too small, otherwise the triode will be caused by the large pull-down resistance inside the chip.

The tube cannot saturate and conduct, thus affecting the use.

SOP16 package outline drawing: