



ONE CHIP AM RADIO CIRCUIT CD7642CP

● DESCRIPTION

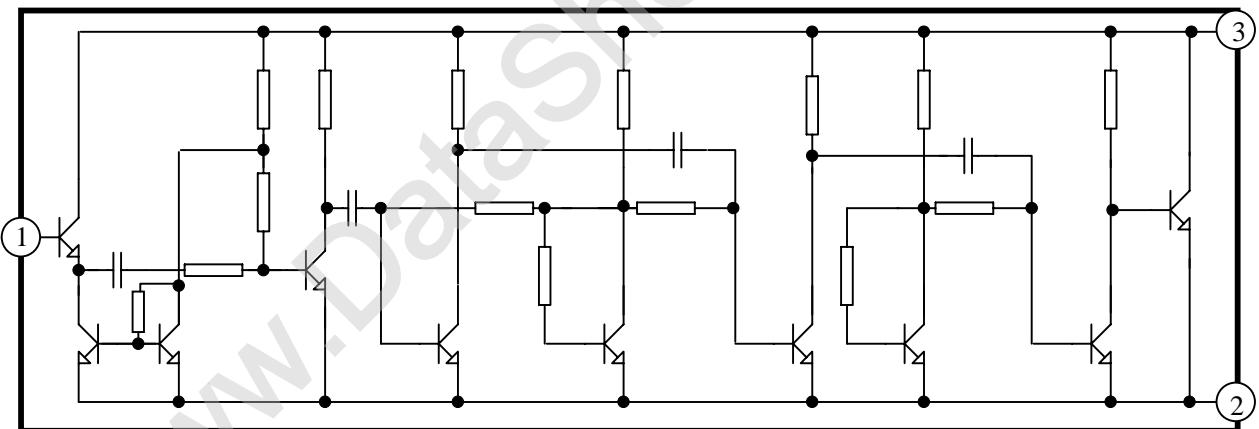
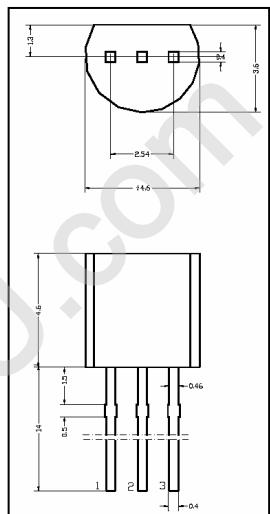
The CD7642CS is suitable for low voltage portable Radio, cassette system and other wireless AM system. The package of CD7642CS is TO-92.

FEATURE

- Low operating voltage: Down to Vcc=1.3V
- Low Quiescent Current: Icco=0.2mA
- Low external component required.

EQUIVALENT CIRCUIT

Outline Drawing



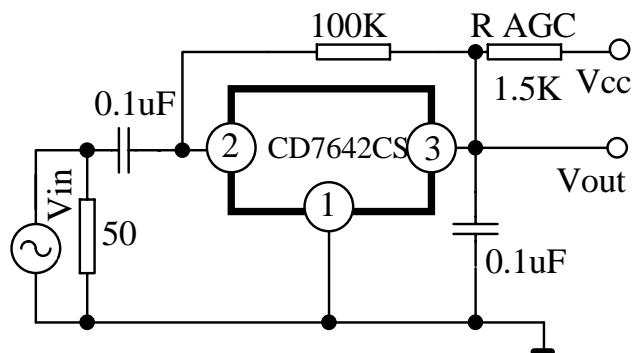
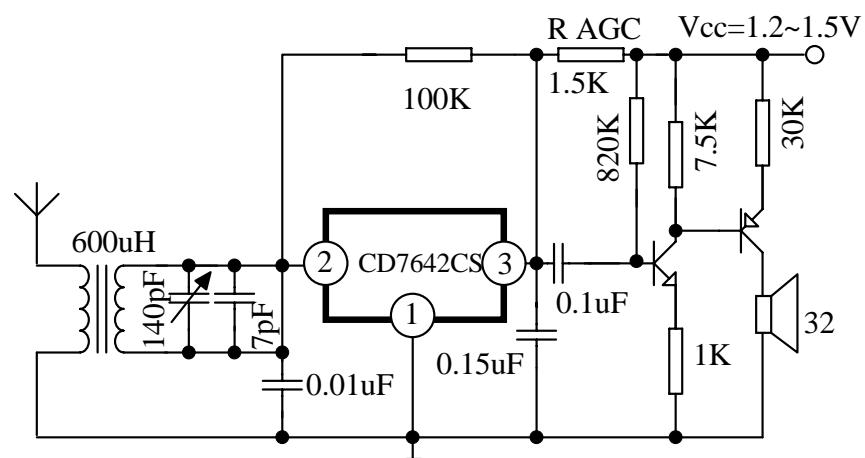
ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Value	Unit
Supply Voltage	Vcc	6	V
Operating Temperature	Topr	-10~60	°C
Storage Temperature	Tstg	-55~150	°C

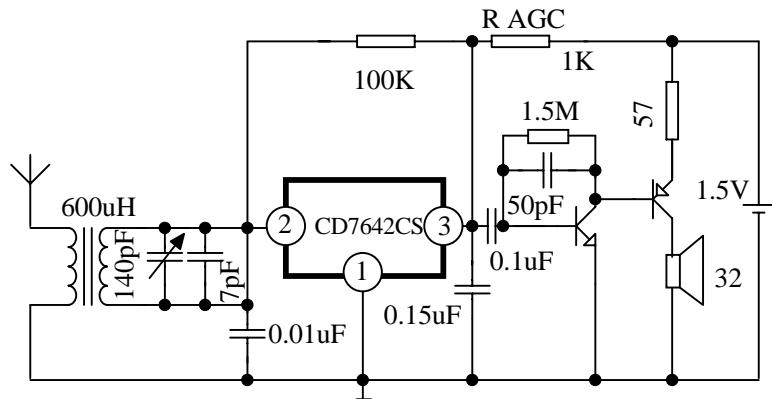
ELECTRICAL CHARACTERISTICS

(Unless otherwise specified: Ta=25°C, Vcc=1.3V, fm=1kHz, fo=1MHz, MOD=30%)

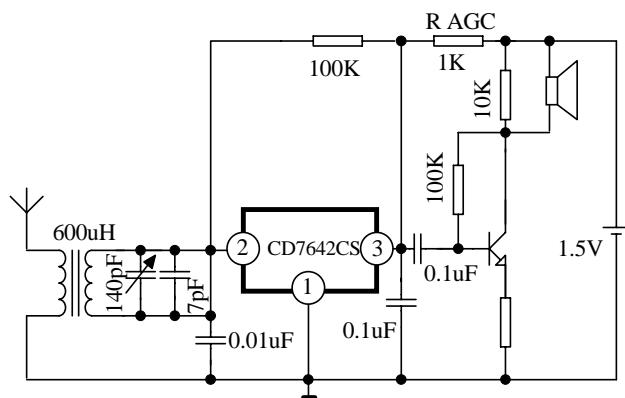
Characteristics	Test conditions	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage		Vcc	1.2	1.3	1.6	V
Quiescent Current	Vi=0	Icco	0.14	0.2	0.3	mA
Input Resistance		Ri		3		MΩ
Maximum Sensitivity	VOD=3mV	SM		600		μV
Detector Output Voltage	Vi=10mV	VOD	5	15	30	mV
The Range of AGC		ΔA		30		dB

TEST CIRCUIT**APPLICATION CIRCUIT**

Circuit 1



Circuit 2



Circuit 3

CHARACTERISTIC CURVE