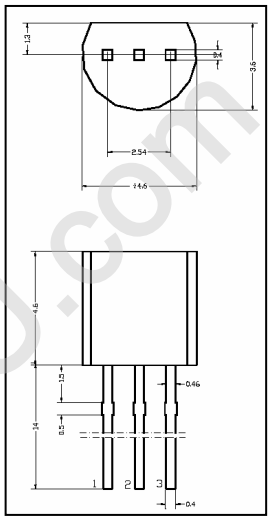
Silicore

ONE CHIP AM RADIO CIRCUIT CD7642CP

DESCRIPTION

Outline Drawing



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

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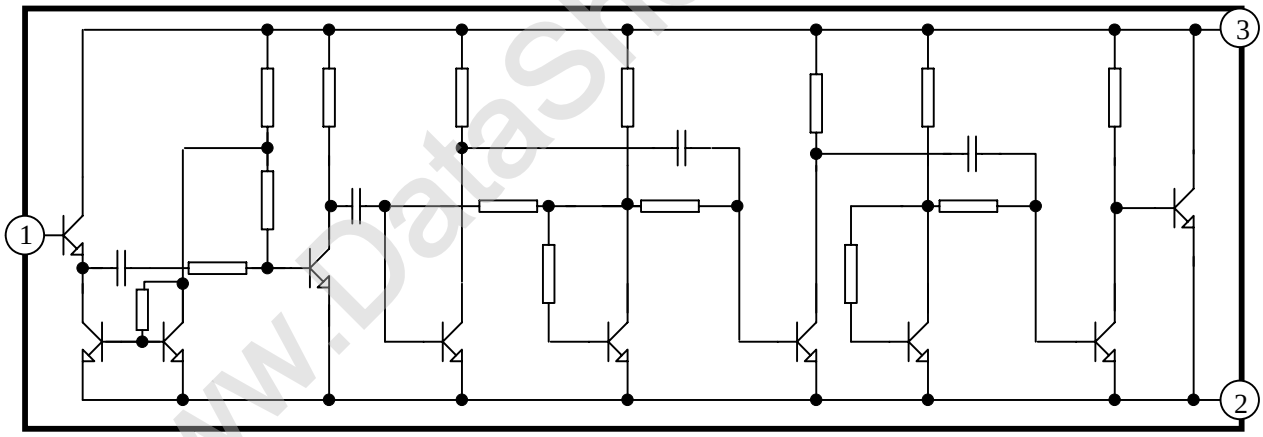
FEATURE

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

EQUIVALENT CIRCUIT



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

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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

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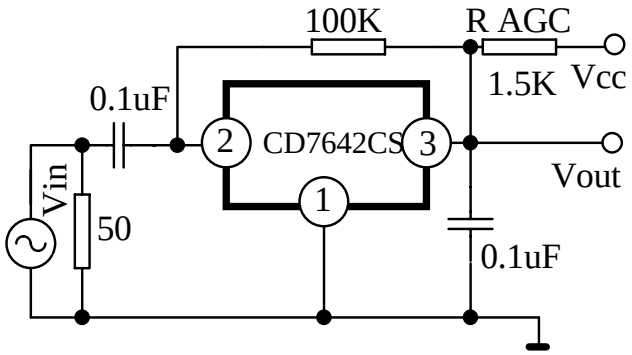
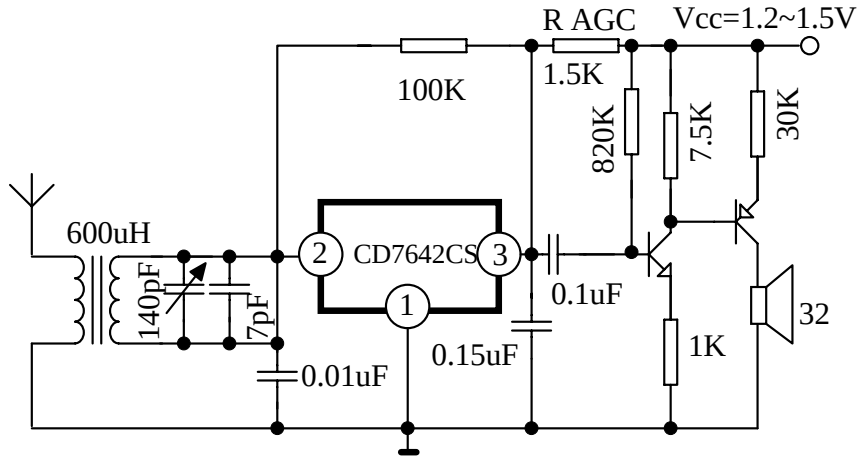
TEST CIRCUIT



APPLICATION CIRCUIT



Circuit 1

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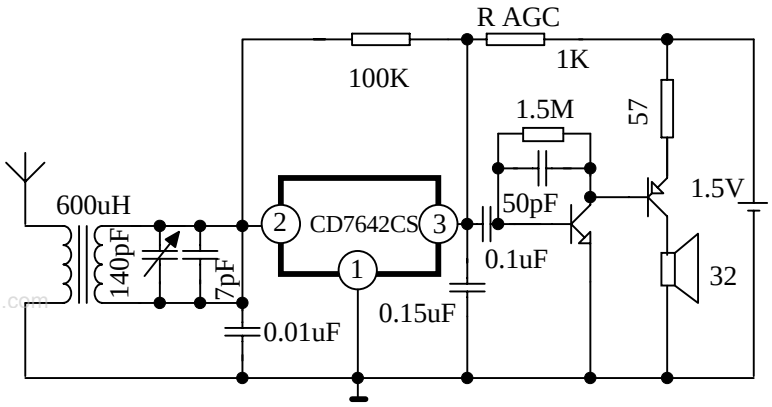
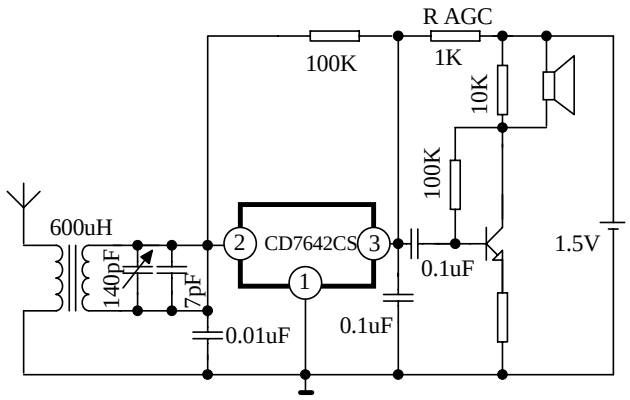
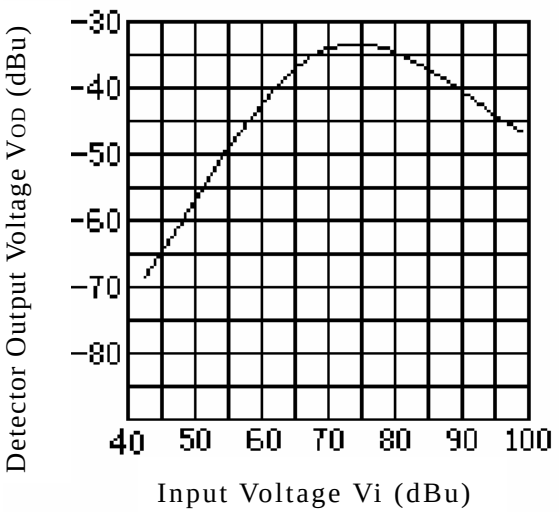


Circuit 2



Circuit 3

CHARACTERISTIC CURVE



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