UNISONIC TECHNOLOGIES CO., LTD

7642

LINEAR INTEGRATED CIRCUIT

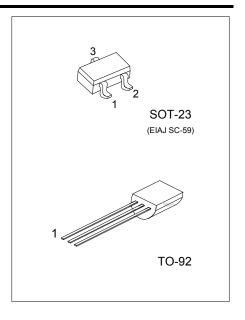
ONE CHIP AM RADIO CIRCUIT

DESCRIPTION

UTC 7642 is suitable for low voltage portable Radio, cassette system and other wireless AM system.

FEATURES

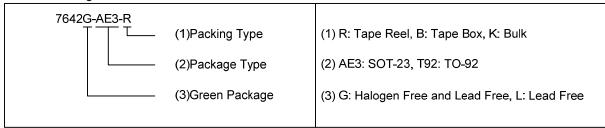
*Low operating voltage: Down to V_{CC}=1.3V *Low Quiescent Current: I_{CCO}=0.2mA



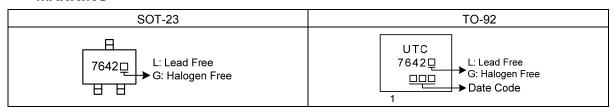
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Doolsing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
7642L-AE3-R	7642G-AE3-R	SOT-23	G	0	I	Tape Reel	
7642L-T92-B	7642G-T92-B	TO-92	G	I	0	Tape Box	
7642L-T92-K	7642G-T92-K	TO-92	G	1	0	Bulk	

Note: Pin Assignment: G: GND O: Vout I: V_{IN}



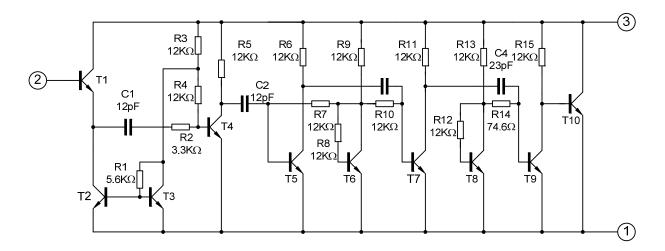
MARKING



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^{*}Low external component required.

■ EQUIVALENT CIRCUIT



■ **ABSOLUTE MAXIMUM RATINGS** (T_A=25°C, unless otherwise specified)

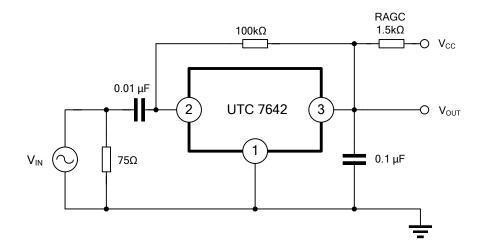
PARAMETER	CVMDOL	RAT	UNIT	
PARAMETER	SYMBOL	MIN	MAX	UNIT
Supply Voltage	Vcc		6	V
Operating Temperature	T _{OPR}	-10	60	°C
Storage temperature	T _{STG}	-55	+150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

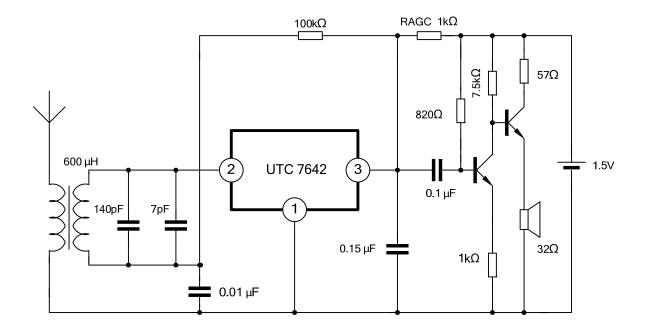
■ ELECTRICAL CHARACTERISTICS (T_J =25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	V_{CC}		1.2	1.3	1.6	V
Quiescent Current	Iccq	V ₁ =0	0.14	0.20	0.30	mA
Input Resistance	Rı		-	3	-	МΩ
Maximum Sensitivity	S _M	V _{OD} =3mV	-	600	-	μV
Detector Output Voltage	V_{OD}	V _I =10mV	5	15	30	mV
The Range of AGC	Δ_{A}		-	30	-	dB

■ TEST CIRCUIT



■ APPLICATION CIRCUIT



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