



USS359

Preliminary

LINEAR INTEGRATED CIRCUIT

8 GUN SOUND BUILT IN TRANSISTOR

DESCRIPTION

The UTC **USS359** is a new type CMOS sound generator designed for using in rhythm box, toys, etc. It is designed with sound composite system by minimum application circuit and electrify is working. It's easy for you to design your consumer products.

FEATURES

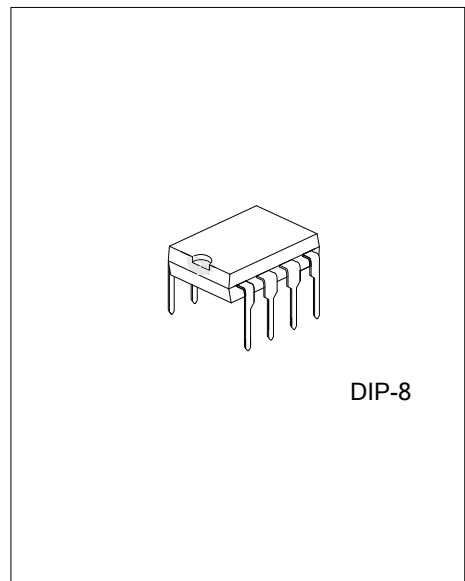
- * 2V~3.5V power supply
- * Built-in oscillator and Typical oscillator frequency 128KHz .
- * Without retriggerable
- * Electrify is working
- * Auto power off

ORDERING INFORMATION

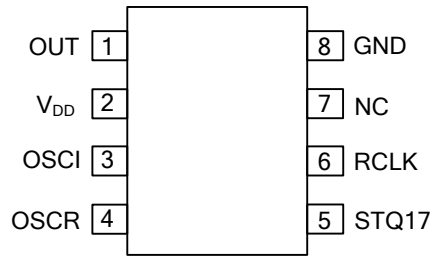
Ordering Number		Package	Packing
Lead Free	Halogen Free		
USS359L-D08-T	USS359G-D08-T	DIP-8	Tube

Note: xx: Output Voltage, refer to Marking Information.

USS359L-D08-T 	(1) T: Tube (2) D08: DIP-8 (3) L: Lead Free, G: Halogen Free
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■ PIN CONFIGURATION



■ PIN DESCRIPTION

PIN NO.	PIN NAME	DESCRIPTION
1	OUT	Sound direct output pin
2	V _{DD}	Positive power supply pin
3	OSCI	Oscillator input
4	OSCR	Oscillator output
5	STQ17	For test
6	RCLK	For test
7	NC	Test mode pin
8	GND	Negative power supply pin

■ ABSOLUTE MAXIMUM RATING

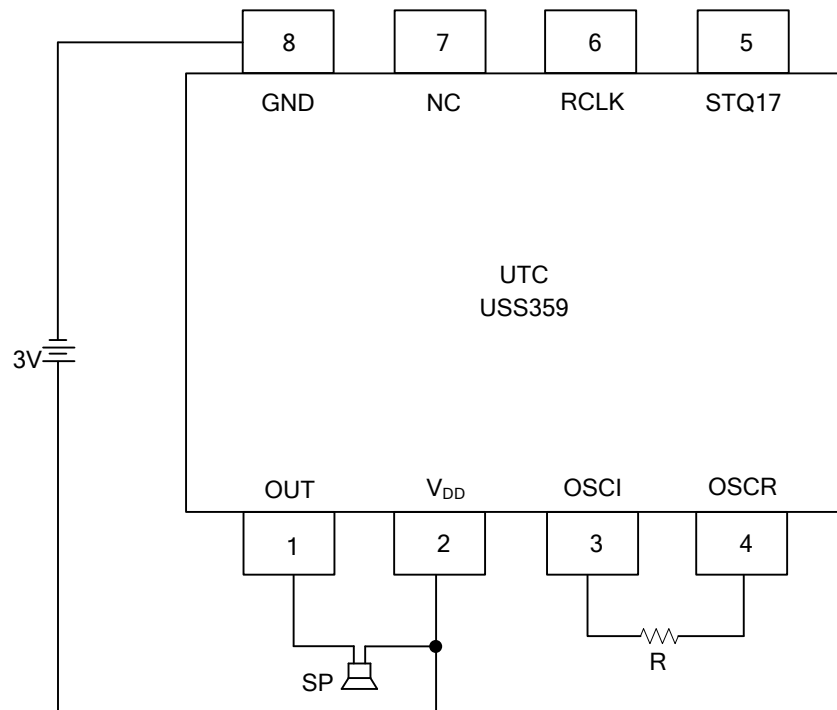
PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V_{DD}	0~5	V
Input/ Output Voltage	V_I/V_O	0~5	V
Operating Temperature	T_{OPR}	0~60	°C
Storage Temperature	T_{STG}	-20~100	°C

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Operating Voltage	V_{DD}			3	3.5	V
Operating I_{DD}	I_{DD}	No Load		0.1	0.5	mA
Quiescent I_{DD}	I_{DD}			1	5	μA
OUT Driving Current	I_{DRV}	$V_{DS}=1V$	80			mA
Oscillator Frequency	F_{OSC}	±30% TOL		125		KHz
Operating Temperature	T_{EMP}		0	25	60	°C

■ TYPICAL APPLICATION CIRCUIT



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