

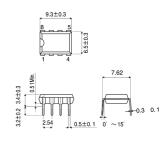
Call Progress Tone Decoder for Telephone BU8877/F

Description

The BU8877 and BU8877F are ICs that detect dial tones from a call progress signal used in the telephone lines. The ICs detect dual signals 350Hz(from 345 to 355Hz)and 440Hz(from 435 to 445Hz).









3) Wide dynamic range

Features

4) 3.58MHz crystal resonator

1) No malfunction by voice signal

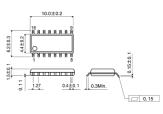
2) Dual tone detection (350Hz and 440Hz)

BU8877F

°C

Applications

Telephone, Codeless telephone and Facsimile for the U.S.



SOP16

•	Absolute Max	kimum Rating	gs (Ta=25°	C)	
	Parar	neter	Symbol	Limits	Unit
	Power supply \	/oltage	V _{CC}	7	V
	Power	DIP8	Pd	800 ^{*1}	mW
	dissipation	SOP16	гu	300 ^{*2}	IIIVV
	Operating temperature range		Topr	-30 ~ +80	°C

Storage temperature range Tstg

*1 Derating:8.0mW/°C for operation above Ta=25°C *2 Derating:3.0mW/°C for operation above Ta=25°C

Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Power supply voltage	V _{DD}	2.85	-	5.25	V

-55 ~

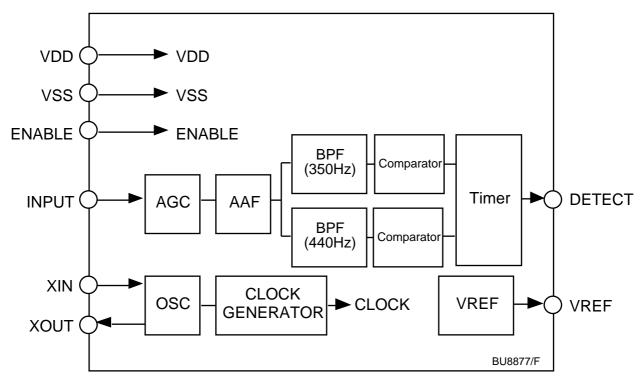
+125

● Electrical characteristics (Unless otherwise noted, Ta=25°C, V_{DD}= 5.0V, Xtal frequency=3.58MHz)

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Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Supply current operation 2-1	IDD2-1	-	3.7	5.0	mA	ENABLE="H"(VDD=5.0V)	
Minimum input signal level	VRECL	-38	-	-	dBm	Input frequency:	
Maximum input signal level	VRECH	-	-	2	dBm	Must detect frequency range VRECL, VRECH are proportional	
Must not detect signal level		VREJ	-50	-	-	dBm	to VDD.
	350Hz	fV350	345	350	355	Hz	Input signal level: 0dBm
Must detect frequency range	440Hz	fV440	435	440	445	Hz	input signal level. Odbin
Input Impedance		Zin	-	100	-	k	Input frequency: 100Hz~2000Hz
Call progress tone response	t _{RES}	28	-	56	ms		
Call pogress tone de-response	t dres	28	-	56	ms		
Detect duty ratio	Wdu	35	50	65	%		

*Detect Duty Ratio which input signal (350Hz+440Hz) burst at 5Hz (Duty Ratio=50%)

Block Diagram



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