99W121A

IC

Call Progress Tone Decoder for Telephone **BU8877/F** Dimension(Units:mm) The BU8877 and BU8877F are ICs that BU8877 detect dial tones from a call progress signal used in the telephone lines. The ICs detect 9.3±0.3 dual signals 350Hz(from 345 to 355Hz)and 440Hz(from 435 to 445Hz). 8.2±0.2 3.4±0.3 ZSC.COM 2.54 0.5±0.1 0'~15 1) No malfunction by voice signal 2) Dual tone detection (350Hz and 440Hz) DIP8 4) 3.58MHz crystal resonator BU8877F

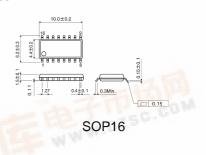
Applications

Description

Features

3) Wide dynamic range

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



Parameter		Symbol	Limits	Unit	
Power supply voltage		V _{cc}	7	V	
Power	DIP8	Dd	800 *1	mW	
dissipation	SOP16	Fu	300 ^{*2}	11100	
Operating temperature range		Topr	-30 ~ +80	°C	
Storage temper	rature range	Tstg	-55 ~ +125	°C	
	Power supply v Power dissipation Operating temp	Power supply voltagePowerDIP8dissipationSOP16	Power supply voltage V _{CC} Power dissipation DIP8 SOP16 Pd Operating temperature range Topr	Power supply voltage V_{cc} 7Power dissipationDIP8 SOP16Pd800 *1 300 *2Operating temperature rangeTopr-30 ~ +80	

Absolute Maximum Ratings (Ta=25°C)

*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	

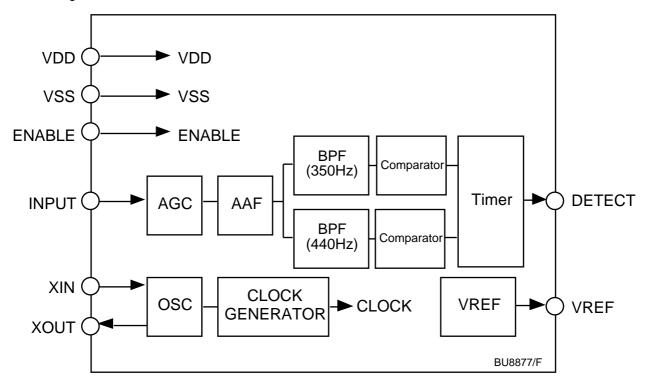


Parameter		Symbol	Min.	Тур.	Max.	Unit	Conditions	
Supply current operation 2-1		ldd2-1	-	3.7	5.0	mA	ENABLE="H"(VDD=5.0V)	
Minimum input signal level		VRECL	-38	-	-	dBm	Input frequency:	
Maximum input signal level		VRECH	-	-	2	dBm	Must detect frequency range VRECL, VRECH are proportional	
Must not detect signal level		VREJ	-50	-	-	dBm	to VDD.	
Must detect frequency range	350Hz	fV350	345	350	355	Hz	Input signal level: 0dBm	
	440Hz	fV440	435	440	445	Hz		
Input Impedance		Zin	-	100	-	k	Input frequency: 100Hz~2000Hz	
Call progress tone response time		t _{RES}	28	-	56	ms		
Call pogress tone de-response time		t dres	28	-	56	ms		
Detect duty ratio		Wdu	35	50	65	%		
Detect Duty Betie which input of	and (DE		hurst at El		tio E00/)		•	

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

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

Block Diagram



Appendix

Notes

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