查询BU9432KVT供应商 捷多邦，专业PCB打样工厂，24小时加急出货

◇Product name USB host for silicon audio, self-powered MP3 decoder

◇Model **BU9432KVT**

◇Outline drawing Figure-1 (Plastic mold)

◇Terminal block diagram Figure-2

◇Functions

BU9432KVT is MP3 decoder IC which contains USB host, DCDC converter, and headphone output function. This IC is able to achieve USB host MP3 player system easily.

(1) MP3 decode function contained. (available for MPEG1/2 and Layer 1,2,3 of 2.5)
(2) USB host function contained.
(3) DCDC converter contained.
(4) Headphone amp output contained.
(5) Extension I/O function contained.
(6) TQFP64 pin (0.5mm pitch)

◇Absolute maximum rating (Ta = 25℃)

ITEM	SYMBOL	RATING	UNIT
Impressed Voltage	$V_{DD1.5MAX}$	-0.3～2.1	V
Input Voltage	V_{IN15}	-0.3～V_{DD15}+0.6	V
Output Voltage	V_{OUT15}	-0.3～V_{DD15}+0.6	V
Storage	T_{stg}	-55～+125	℃
Allowable dissipation *1	P_D	900	mW

*1 For an operation with Ta = 25℃ or more, it shall be reduced 9mW per ℃.

◇Recommendable operating range

ITEM	SYMBOL	RATING	UNIT
Power Supply Voltage	V_{DD15}	1.35～1.65	V
Operating Temperature range	T_{opr}	-45～+85	℃

※ Radiation resistance is not included in the design.

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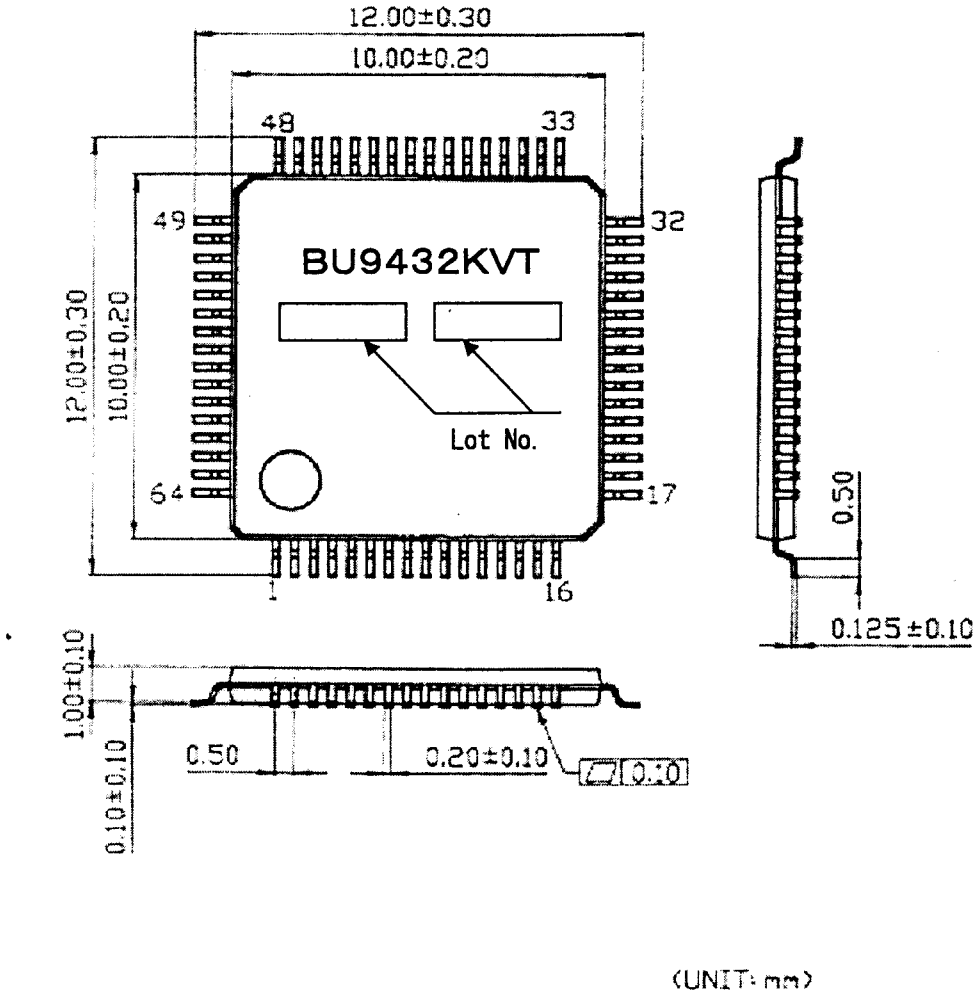

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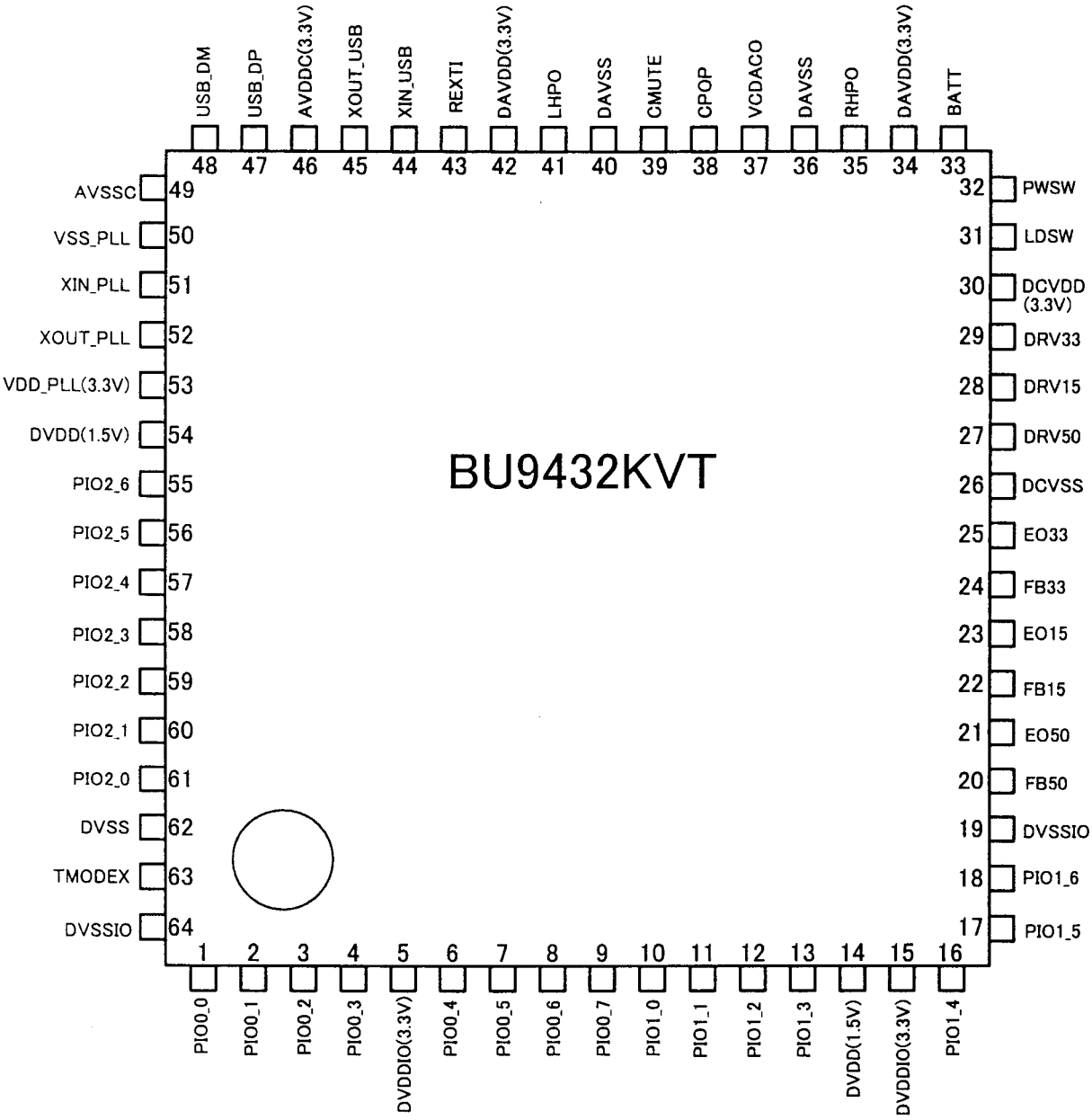
Figure-1 Outline Drawing



(TOP VIEW)

Figure-2 Terminal Block Diagram

Electric Characteristics

DC characteristics (V_{DD1} = 3.3V, V_{DD2} = 1.5V, Ta = 25℃) unless otherwise specified

	ITEM	SYMBOL		CONDITION	Specified Value MIN	TYP	MAX	UNIT	Applicable terminal
Whole	Operating Voltage	I_{DD1}		V_{DD1}	-	30	-	mA	*1
		I_{DD2}		V_{DD2}	-	20	-	mA	*2
Digital part	Input Voltage	H level	V_{IH}	-	2.3	-	-	V	*3
		L level	V_{IL}	-	-	-	1.1	V	
	Output Voltage1	H level	V_{OH1}	I_{OH1} = -1.0mA	2.8	-	-	V	*4
		L level	V_{OL1}	I_{OL1} = 1.0mA	-	-	0.5	V	
	Output Voltage2	H level	V_{OH2}	I_{OH2} = -2.0mA	2.8	-	-	V	*5
		L level	V_{OL2}	I_{OL2} = 2.0mA	-	-	0.5	V	
USB part	Input Voltage	H level	V_{IH}	*6	2.0	-	-	V	*7
		L level	V_{IL}		-	-	0.8	V	
	Output Voltage	H level	V_{OH}		2.8	-	3.6	V	
		L level	V_{OL}		0	-	0.3	V	

AC characteristics (Ta = 25℃) unless otherwise specified

	ITEM	SYMBOL	CONDITION	Specified Value MIN	TYP	MAX	UNIT	Applicable terminal
XIN, XOUT part	Oscillating Frequency1	fmax1	XIN_PLL, XOUT_PLL	-	16.9344	-	MHz	*8
	Oscillating Frequency2	fmax2	XIN_USB, XOUT_USB	-	12	-	MHz	*9
Head Phone AMP part	Strain rate	THD	0db, 1kHz sine	-	0.01	-	%	*10
	D range	DR	-60dB, 1kHz sine	-	90	-	dB	
	S/N ratio	S/N		-	96	-	dB	
	Maximu Output Level	V_{smax}	RL=16Ω, 0dB, 1kHz sine	-	0.85	-	Vrms	

*1 3.3V system IO, analog power supply DVDDIO, DCVDD, DAVDD, AVDDC
*2 1.5V system CORE power supply DVDD
*3 all PIO terminals PIO0_0-PIO0-7, PIO1_0-PIO1_6, PIO2_0-PIO2_6
*4 PIO0_0-PIO0_7, PIO1_0-PIO1_6
*5 PIO2_0-PIO2_6
*6 follows USB2.0 standard
*7 USB_DP, USB_DM
*8 XIN_USB, XOUT_USB
*9 XIN_USB, XIN_USB
*10 LHPO, RHPO