DATA SHEET

Part No.	AN5832SA	
Package Code No.	SSOP032 - P - 0300AP	

SEMICONDUCTOR COMPANY MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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AN5832SA

Silicon Monolithic Bipolar IC

■ Features

- Supports both I²C bus and parallel control
- Integrated SIF demodulation
- Fully adjustment free (when used with SIF input) 2 adjustment points when used with baseband input
- Integrated voice AGC circuit
- Reduced peripheral component count
- Low power consumption (typ. $V_{CC} = 5 \text{ V}$, $I_{TOT} = 28 \text{ mA}$)
- Near pin to pin compatible with AN5833SA (Japanese TV audio multiplex demodulation IC)

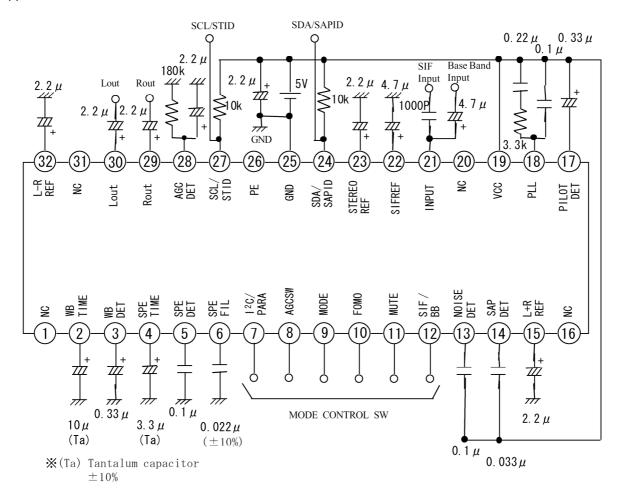
Applications

• TV sets, VCRs, DVD recorders, PCs, car navigation systems, and similar products for US market

■ Package

• DIL-32PIN Plastic Package (SO Type)

■ Application Circuit

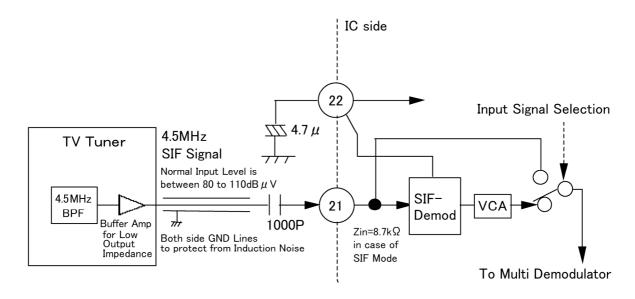


< Instructions of Application Circuits >

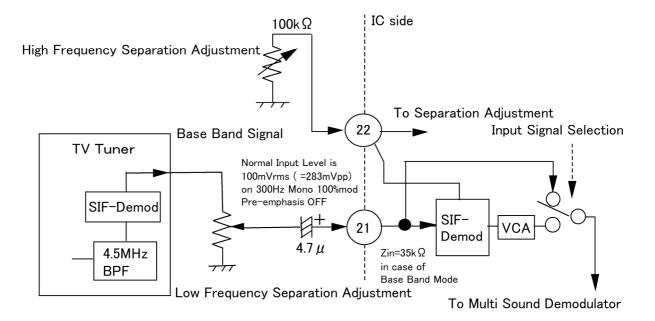
- In case of using base band input, ICs were adjusted to perform good separation when input level ismatched with 100 mV[rms] (= 283 mV[p-p]) on condition of mono 100% mod pre-emphasis OFF.
 However, if good enough separation can't be taken in the cause of un-matching frequency characteristic and so in input signal, it can adjust separation by connecting a volume between #22Pin and GND for adjusting high frequency separation. If it not need adjusting separation, please open #22Pin.
 If it need adjusting low frequency separation also, please adjust the input level volume for taking best separation on low frequency.
- 2) In case of using SIF input, please set up the SIF input level from tuners between $80~dB\mu V$ to $110~dB\mu V$ in standard RF input conditions. Please select SIF BPFs that group delay of 4.5 MHz $\pm 42~kHz$ is flat as possible.
- 3) In measuring characteristics of separation, please use the stereo modulator that perform good characteristic on dbx encoder and corrected well.
 - In case of using SIF input, please correct FM modulation band to ± 25 kHz exactly at mono 100% mod pre-emphasis OFF with the 0 carrier method.
 - And, please use LPFs that reduce 30 kHz signal over 20 dB setting between line-outs and AB level meter

■ Application Circuit (continued)

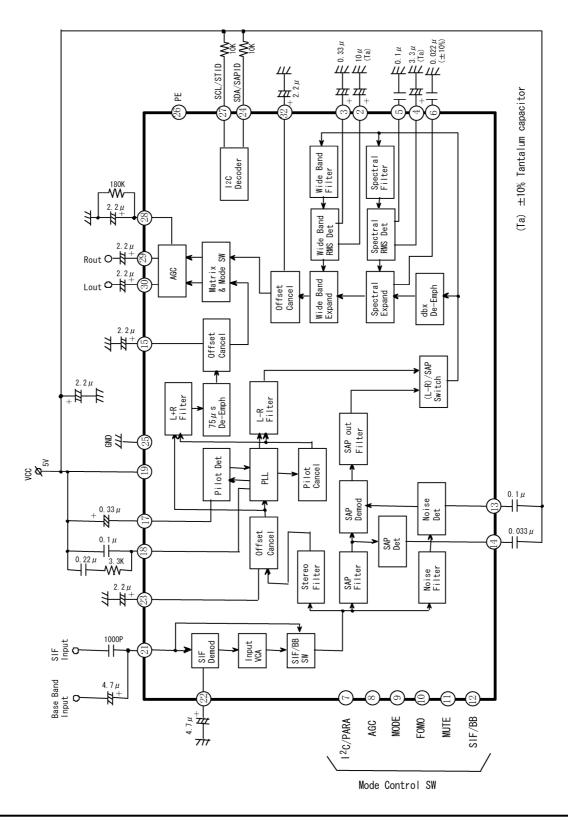
(1) Example of No Adjustments Application Circuits in case of SIF Input



(2) Example of Adjustments Application Circuits in case of Base Band Input



■ Block Diagram



Panasonic

■ Pin Descriptions

Pin No.	Function	
1	N. C.	
2	Wide band timing	
3	Wide band DET	
4	Wide band DET	
5	Spectral DET	
6	Spectral DET	
7	I ² C Spectral DET	
8	Spectral DET	
9	MODE SW	
10	Force monaural SW	
11	Mute SW	
12	SIF / Base band SW	
13	SAP Noise DET	
14	SAP DET	
15	L + R REF	
16	N. C.	
17	Pilot DET	
18	Stereo PLL filter	
19	V_{CC}	
20	N. C.	
21	SIF IN	
22	SIF REF	
23	STEREO REF	
24	SDA / SAPID	
25	Ground	
26	PE	
27	SCL / STID	
28	AGC DET	
29	Right - channel output	
30	Left - channel output	
31	N. C.	
32	L - R REF	

■ Absolute Maximum Ratings

No.	Parameter	Symbol	Rating	Unit	Note
1	Storage temperature	T_{stg}	-55 to +125	°C	*1
2	Operating ambient temperature	T_{opr}	-20 to +85	°C	*1
3	Operating ambient atmospheric pressure	P _{opr}	$1.013 \times 10^5 \pm 0.61 \times 10^5$	Pa	
4	Operating constant gravity	$G_{ m opr}$	9 810	m/s ²	
5	Operating shock	S _{opr}	4 900	m/s ²	
6	Supply voltage	V _{CC}	6.0	V	
7	Supply current	I_{CC}	38	mA	
8	Power dissipation	P_{D}	228	mW	$T_a = 85^{\circ}C$

Note) *1 : $T_a = 25$ °C except storage temperature, and operating ambient temperature.

■ Operating Supply Voltage Range

Operating supply voltage range	V _{CC}	4.5 V to 5.5 V
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^{*2}: To use this products including dbx - TV noise reduction need the license agreement with THAT corporation.