PRELIMINARY

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M62455P/FP

SRS 3D SOUND PROCESSOR

Simplified SRS 3D Sound Processor

OUTLINE

M62455FP is an SRS 3D sound processor for PC, TV and audio equipment.

This IC has only simplified SRS circuit and packed in a small 14-pin DIP and SOP.

FEATURES

- SRS 3D sound circuit
- SRS on/off function switch included
- Noise level=25µVrms(When SRS on)

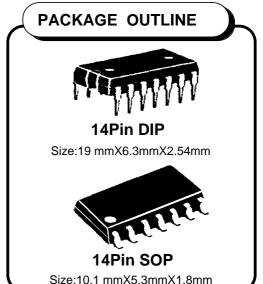
APPLICATION

● PC, TV, Mini Stereo, etc

RECOMMENDED OPERATING CONDITION

Supply voltage rangeRated supply voltage

4.5 ~ 12.0V 9V

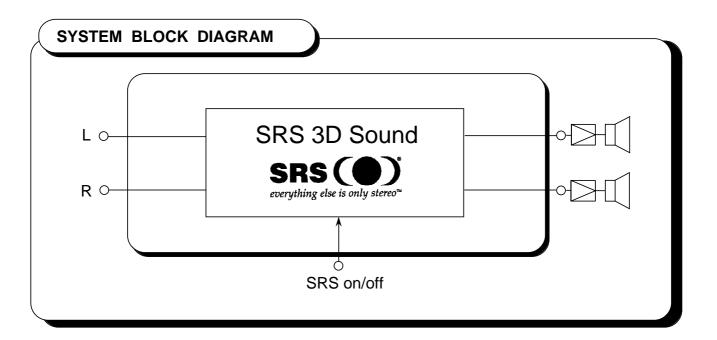


Note !!

SRS,the SRS logo,Sound Retrieval System and "everything else is only stereo" are registered trademarks of SRS Labs, Inc.
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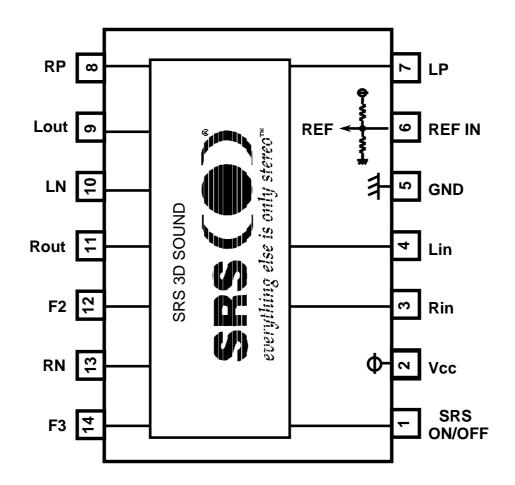
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SRS 3D SOUND PROCESSOR

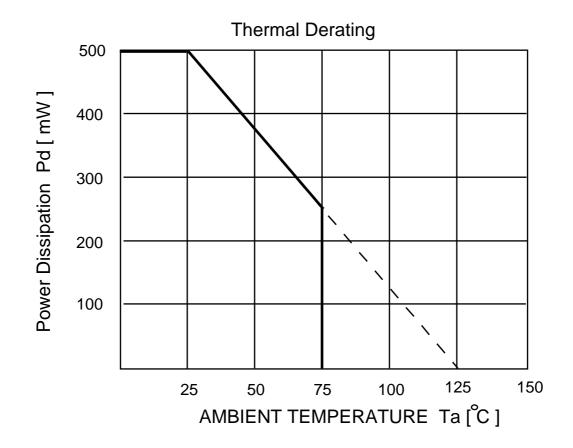
BLOCK DIAGRAM



SRS 3D SOUND PROCESSOR

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply Voltage		13.0	V
Pd	Power Dissipation	Ta<25	500	mW
KΘ	Thermal Derating	Ta>25	5	mW/°C
Topr	Operating Temperature		-20 ~ 75	°C
Tstg	Storage Temperature		-40 ~ 125	°C



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SRS 3D SOUND PROCESSOR

RECOMMENDED OPERATING CONDITION

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
Vcc	Supply Voltage		4.5	9.0	12.0	V
VIH	High Level Input Voltage	Pin-1 (SRS on)	2.1		VDD	V
VIL	Low Level Input Voltage	Pin-1 (SRS off)	0	_	0.8	V

ELECTRICAL CHARACTERISTICS

(1) Power Supply Characteristics

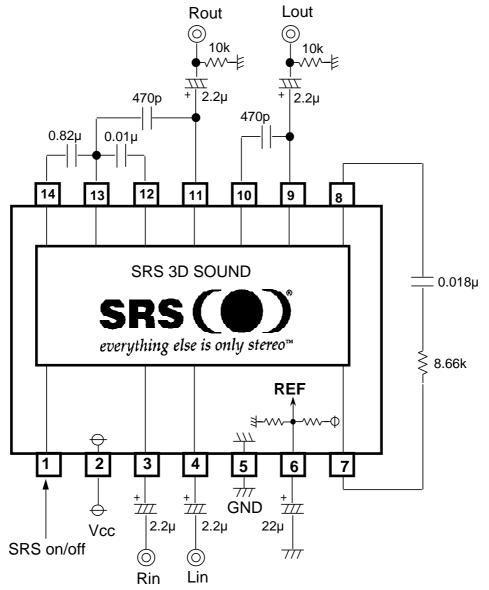
Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
Icc	Circuit Current			10	20	mA

(2) -1 Input / Output Characteristics (Vcc=9V, Ta=25°C, Vi=500mVrms)

Symbol	Parameter	Conditions		Conditions	Limit			Unit
Symbol	Falailletei	Input	Output	Ooriditions	Min.	Тур.	Max.	Offic
Gv1	Input - Output Voltage Gain1	f=1kHz	RL=10K	SRS off	-3	0	+3	dB
Gv2	Input - Output Voltage Gain2	f=1kHz	RL=10K	SRS on	4.0	7.0	10.0	dB
Gv3	Input - Output Voltage Gain3	f=100Hz	RL=10K	SRS on	8.0	11.0	14.0	dB
Gv4	Input - Output Voltage Gain4	f=10KHz	RL=10K	SRS on	7.0	10.0	13.0	dB
Vом	Maximum Output Voltage	f=1kHz	THD=1% IHF-A filter RL=10K	SRS on/off	1.8	2.2		Vrms
THD	Total Harmonic Distortion	f=1kHz Vi=-10dBv	DIN-A filter RL=10K	SRS off		0.01	0.05	%
V _N O1	Output Noise Voltage1		IHF-A filter	SRS off		5	10	μVrms
VNO1	Output Noise Voltage2		IHF-A filter	SRS on		25	60	μVrms

SRS 3D SOUND PROCESSOR

APPLICATION EXAMPLE



Unit R: C: F

MITSUBISHI SOUND PROCESSOR

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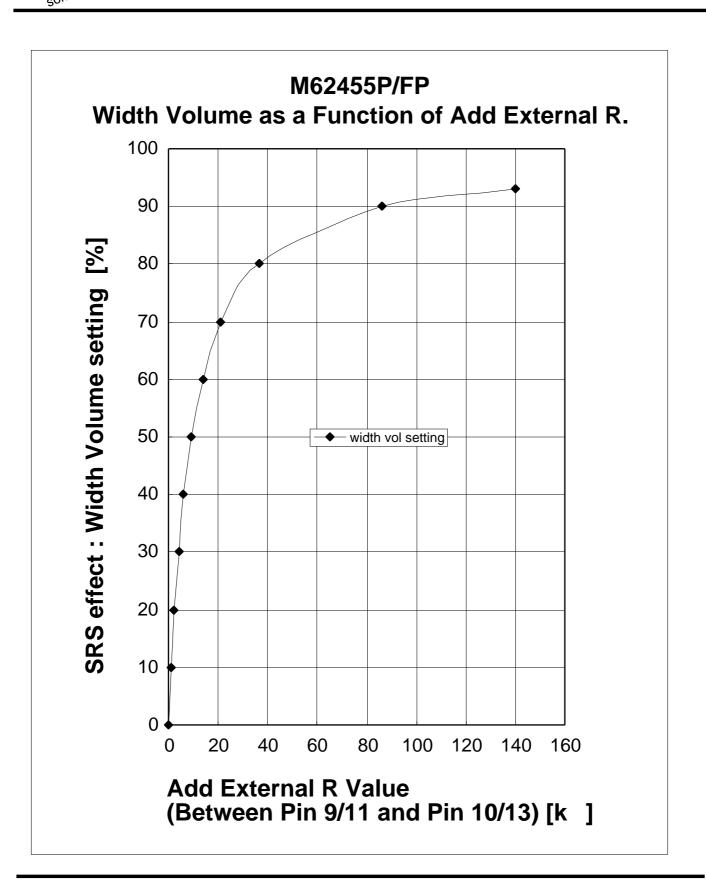
SRS 3D SOUND PROCESSOR

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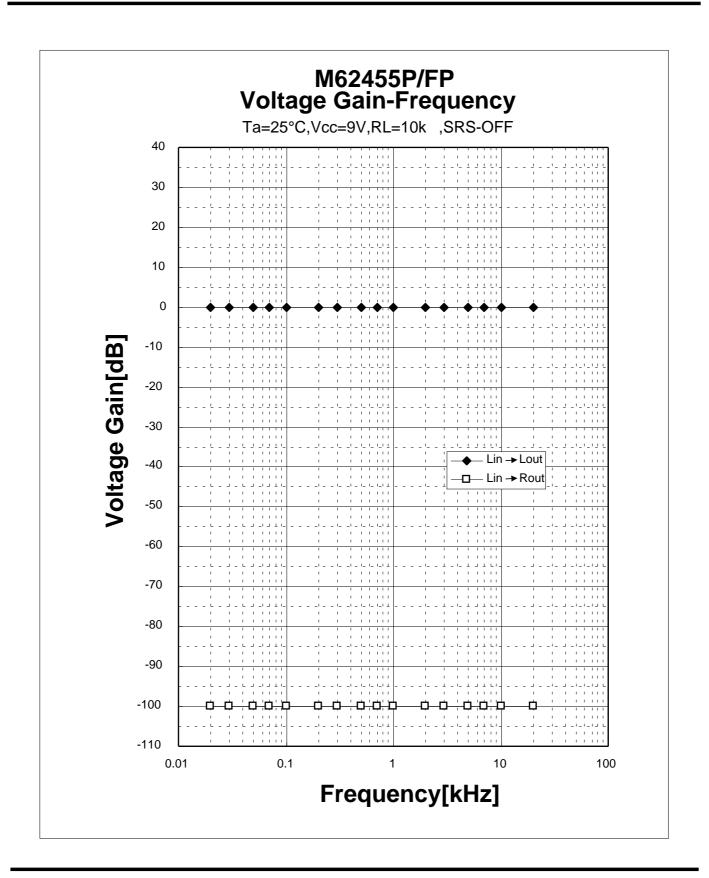
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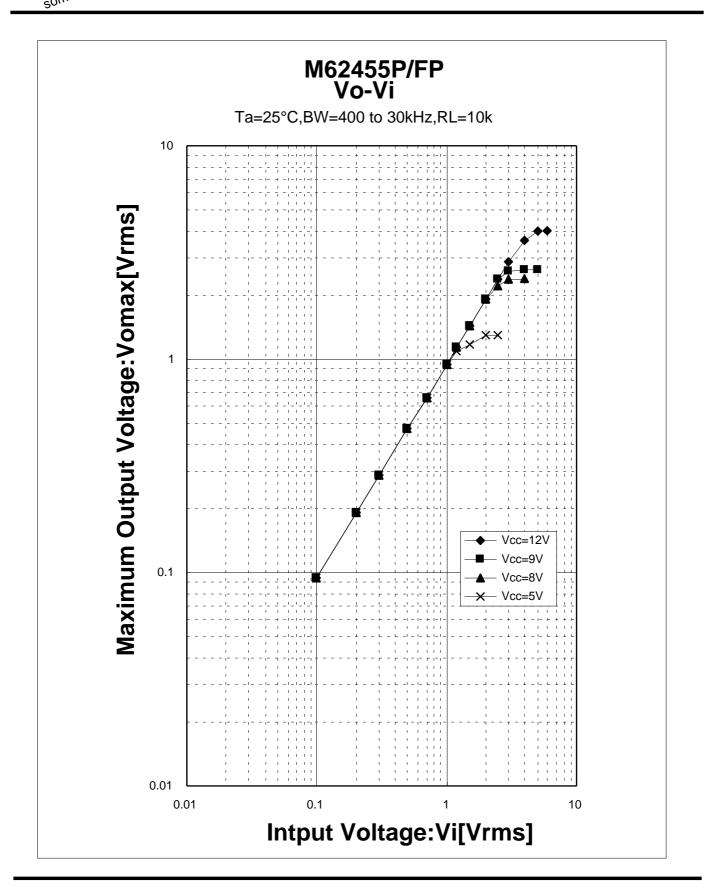
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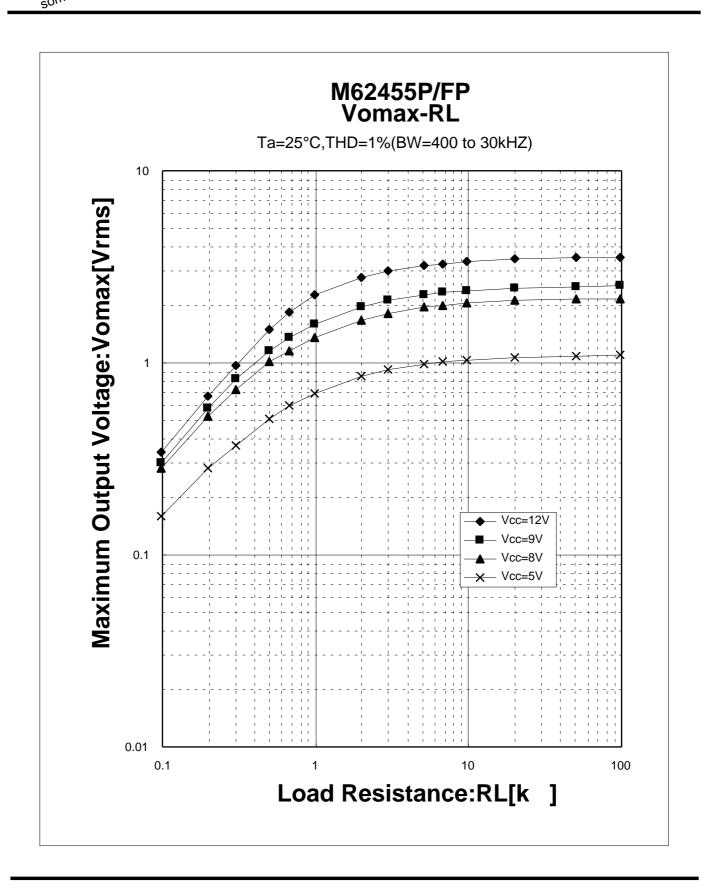
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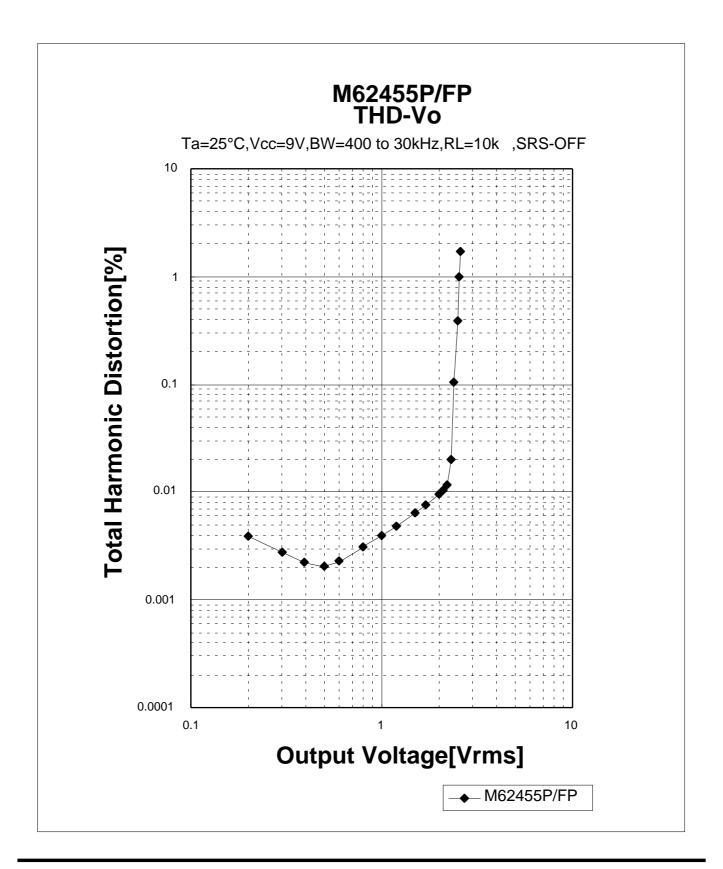
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