

音频/视频

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音频放大器

车载功放

1.2W 单声道AB类功放

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Standby Current (μ A)	Voltage Gain (dB)	Output Power (W)	Input Impedance Z_{in} (k Ω)	Built-in Amplifier Resistance		Distortion (%)	Output Noise Voltage (μ Vrms)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
							Ri (k Ω)	Rf (k Ω)					
BD78306EFJ-M	4.0 to 5.5	2.5	0.1	6.0 ($P_o=0.5W$)	1.2 (THD+N=1%)	45	90	90	0.05 ($P_o=1W$)	15	HTSOP-J8	FSS	YES
BD78310EFJ-M				10.0 ($P_o=0.5W$)		35	70	110	0.06 ($P_o=1W$)	17	HTSOP-J8	FSS	YES
BD78326EFJ-M				26.0 ($P_o=0.5W$)		8	16	164	0.20 ($P_o=1W$)	50	HTSOP-J8	FSS	YES

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*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

扬声器放大器

便携式放大器 1.9W+1.9W立体声扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Standby Current (μ A)	Voltage Gain (dB)	Output Power (W)	Distortion (%)	Output Noise Voltage (μ Vrms)	Package
BD7836EFV	4.5 to 5.5	1.0	5	0.1	6/10/15.6/21.6	1.9 ($V_{DD}=5V, 4\Omega, THD+N=1\%$)	0.1	16	HTSSOP-B20

便携式放大器 1.1W~1.5W单声道扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Standby Current (μ A)	Voltage Gain (dB)	Output Power ($R_L=8\Omega, THD=10\%$)		Distortion (%)	Output Noise Voltage (dBV)	Package
						$V_{CC}=3.6V$	$V_{CC}=5.0V$			
BD7830NUV	2.4 to 5.5	0.53	3.2	0	0 to 20	0.77W	1.5W	0.1	-100	VSON008V2030

便携式放大器 模拟输入单声道D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)		Distortion (%)	Output Noise Voltage (μ Vrms)	ALC Circuit	Package (mm)				
BD5460GUL	2.5 to 5.5	0.69	2.0 ($V_{DD}=3.6V$)	6	2.5 ($V_{DD}=5V, R_L=4\Omega$)	0.85 ($V_{DD}=3.6V, R_L=8\Omega$)	0.3 ($V_{DD}=3.6V$)	30	—	VCSP50L1 1.6x1.6, H=0.55Max				
BD5461GUL		0.69	2.0 ($V_{DD}=3.6V$)	12	2.5 ($V_{DD}=5V, R_L=4\Omega$)	0.85 ($V_{DD}=3.6V, R_L=8\Omega$)								
BD27400GUL		0.69	2.9 ($V_{DD}=3.6V$)	External Variable	2.5 ($V_{DD}=5V, R_L=4\Omega$)	0.85 ($V_{DD}=3.6V, R_L=8\Omega$)								
BD5632NUX		0.52	2.7 ($V_{DD}=3.6V$)	6	2.5 ($V_{DD}=5V, R_L=4\Omega$)	0.85 ($V_{DD}=3.6V, R_L=8\Omega$)								
BD5634NUX		0.52	2.7 ($V_{DD}=3.6V$)	12	2.5 ($V_{DD}=5V, R_L=4\Omega$)	0.85 ($V_{DD}=3.6V, R_L=8\Omega$)								
BD5638NUX		0.52	2.7 ($V_{DD}=3.6V$)	18	2.5 ($V_{DD}=5V, R_L=4\Omega$)	0.85 ($V_{DD}=3.6V, R_L=8\Omega$)								
BD5465GUL		0.69	3.3 ($V_{DD}=3.6V$)	12	0.6 ($V_{DD}=3.4 to 5.5V, R_L=8\Omega$)									
BD5466GUL		0.69	3.0 ($V_{DD}=3.6V$)	18	1.5 ($V_{DD}=5V, R_L=4\Omega$)	0.5 ($V_{DD}=3.6V, R_L=8\Omega$)								
BD5467GUL		0.69	3.0 ($V_{DD}=3.6V$)	13	1.5 ($V_{DD}=5V, R_L=4\Omega$)	0.5 ($V_{DD}=3.6V, R_L=8\Omega$)								
BD5468GUL		0.69	3.0 ($V_{DD}=3.6V$)	13	1.5 ($V_{DD}=5V, R_L=4\Omega$)	0.5 ($V_{DD}=3.6V, R_L=8\Omega$)								
BD5469GUL		0.69	3.0 ($V_{DD}=3.6V$)	13	0.88 ($V_{DD}=4.2V, R_L=8\Omega$)	0.64 ($V_{DD}=3.6V, R_L=8\Omega$)								

便携式放大器 模拟输入立体声D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)			Distortion (%)	Output Noise Voltage (μ Vrms)	Max LDO Current (mA)	Package
BD28412MUV	4.5 to 13.0	3.20	16 ($V_{CC}=11V$)	20/26/ 32/36	18 ($V_{CC}=12V, R_L=4\Omega$)	9 ($V_{CC}=12V, R_L=8\Omega$)	0.03 ($V_{CC}=11V$)	100	—	VQFN032V5050	

中/高输出放大器 搭载DSP的支持数字输入的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Output Power (W)	Distortion (%)	Output Noise Voltage (μ Vrms)	DSP					Package	
							Volume	DC Cut HPF	Hard Clipper	Parametric EQ	DRC		
BM28723AMUV	10 to 24	4.56 (4-Layer Board) 2.21 (2-Layer Board)	45 ($V_{CC}=18V$)	10 ($V_{CC}=13V, R_L=8\Omega$)	17 ($V_{CC}=18V, R_L=8\Omega$)	0.08	150	✓	✓	✓	✓ (12 Band)	✓ (3 Band)	VQFN032V5050

中/高输出放大器 支持数字输入的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Output Power (W)			Distortion (%)	Output Noise Voltage (μ Vrms)	Power Limiter Function	Package
BD28623MUV	8.5 to 24.0	3.56 (4-Layer Board) 2.21 (2-Layer Board)	40 ($V_{CC}=18V$)	—	15 ($V_{CC}=16V, R_L=8\Omega$)	0.08	150	✓ (GAIN)	VQFN024V4040	

中/高功率放大器 支持模拟输入/BTL输出的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)			Distortion (%)	Output Noise Voltage (μ Vrms)	Power Limiter Function	Package
BD5424EFS	10.0 to 18.0	4.5 (4-Layer Board) 2.0 (2-Layer Board)	30 ($V_{CC}=12V$)	28	10 ($V_{CC}=12V, R_L=8\Omega$)	20 ($V_{CC}=17V, R_L=8\Omega$)	0.1	80	✓ (Power Limitter)	HTSSOP-A44	
BD5423AEFS	10.0 to 16.5	4.5 (4-Layer Board) 2.0 (2-Layer Board)	25 ($V_{CC}=12V$)	28	10 ($V_{CC}=12V, R_L=8\Omega$)	17 ($V_{CC}=12V, R_L=4\Omega$)	0.1	80	✓ (Power Limitter)	HTSSOP-A44	
BD5426EFS	10.0 to 16.5	4.5 (4-Layer Board) 2.0 (2-Layer Board)	25 ($V_{CC}=12V$)	28	9 ($V_{CC}=12V, R_L=8\Omega$)	10 ($V_{CC}=13V, R_L=8\Omega$)	0.1	80	✓ (Power Limitter)	HTSSOP-A44	
BD5413EFV	6.0 to 10.5	2.8 (4-Layer Board) 1.1 (2-Layer Board)	12 ($V_{CC}=9V$)	30	4 ($V_{CC}=9V, R_L=8\Omega$)	5 ($V_{CC}=9V, R_L=6\Omega$)	0.2	90	—	HTSSOP-B24	

耳机放大器**无需耦合电容器的耳机放大器**

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Gain (V/V)	Maximum Output Power (mW)	Distortion (%)	Output Noise Voltage (μ Vrms)	Ripple Rejection (dB)	Note	Package (mm)
BD88200GUL	2.4 to 5.5	2	Variable Gain with external resistor	(V _{DD} =3.3V, R _L =16Ω)	0.006 (V _{DD} =3.3V, R _L =16Ω)	10	-80 (f=217Hz)	Virtual ground based	VCSP50L2 2.1x2.1
BD88210GUL			-1.0					Virtual ground based	VCSP50L2 2.1x2.1
BD88215GUL			-1.5					Virtual ground based	VCSP50L2 2.1x2.1
BD88220GUL			-2.0					Virtual ground based	VCSP50L2 2.1x2.1
BD88400GUL			Variable Gain with external resistor					Ground based	VCSP50L2 2.1x2.1
BD88400FJ			Variable Gain with external resistor					Ground based	SOP-J14
BD88410GUL			-1.0					Ground based	VCSP50L2 2.1x2.1
BD88415GUL			-1.5					Ground based	VCSP50L2 2.1x2.1
BD88420GUL			-2.0					Ground based	VCSP50L2 2.1x2.1

0.93V低电压工作(1节电池)耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Maximum Output Power (mW)		Distortion (%)		Output Noise Voltage (μ Vrms)	Package
			Single-ended (16Ω)	BTL (8Ω)	Single-ended (16Ω)	BTL (8Ω)		
BU7150NUV	0.93 to 3.50 (T _s =0°C or more)	1	14 (V _{DD} =1.5V)	85 (V _{DD} =1.5V)	0.1 (P _o =5mW)	0.2 (P _o =25mW)	10	VSON010V3030

标准耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Voltage Gain (dB)	Maximum Output Power (mW) R _L =16Ω	Distortion (%)	Ripple Rejection (dB)	Package
BH3544F	2.8 to 6.5	7.0	6	62	0.02	57	SOP8
BH3547F	4.5 to 6.5	3.7	6	77	0.05	57	SOP8
BH3548F	4.0 to 5.5	6.5	6	62 (120@R _L =8Ω)	0.02	57	SOP8

其他

线路放大器(Output Coupling Capacitor-less)

Part No.	Supply Voltage (V)	Circuit Current (mA)	ch	Voltage Gain (dB)	Maximum Output Voltage (VRms)	Distortion (%)	Output Noise Voltage (μVRms)	Channel Separation (dB)	Ripple Rejection (dB)	Charge Pump	Package
BD8876FV	3.0 to 5.5	3.2	2	6 or 9	3.5	0.003	8	80	65	✓	SSOP-B14
BD8878FV	3.0 to 5.5	3.2	2	6.7	3.0	0.003	10	65	65	✓	SSOP-B14

隔离放大器

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Circuit	Circuit Current (mA)	Voltage Gain (dB)	CMRR (dB)	Common-mode Input Voltage Range (V) V _{CC} =8V	THD (%)	Output Noise Voltage (μVRms)	Channel Separation (dB)	Slew Rate (V/μs)	Input Resistance (kΩ)	Package
BA3121F	4.0 to 18.0	-30 to +85	2	9.0	-0.04	57	3.75	0.002	3.5	82	2.0	55	SOP8
BA3123F	4.0 to 18.0	-40 to +85	2	9.0	-0.04	57	3.75	0.002	3.5	82	2.0	55	SOP8

音频电源

高音质音频电源

*以下产品属于电源管理产品。(请参见P.42)

关于输入电压,请考虑输出电压值以及输入输出电压差后使用。

高音质音频电源

Part No.	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Reference Voltage Accuracy (%)	Dropout Voltage (mV)	Noise Level (μVRms)	PSRR (dB)	Over-Current Protection	Thermal Protection	Package
MUS-IC BD37201NUX	0.5	2.7 to 5.5	Variable 1.0 to 4.5	±1	200	3.3	90 (f=1kHz) 55 (f=1MHz)	✓	✓	VSON008X2030

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作为罗姆音频IC的高端系列,充分实现音频元器件所需的性能参数和音质性能。

音频处理器

模拟音频处理器

内置μ-step音量 6ch/8ch声音处理器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Output Noise Voltage (μVRms)	Distortion (%)	Selector	Main Volume (dB)	ch	Zone Volume (dB)		Tone Control	Serial Control	Package
								ch	ch			
MUS-IC BD34704KS2	±6.5 to ±7.5	±32	1.2	0.0004	18	+32 to -95 0.5/Step	8	+7.5 to -91.5 0.5/Step	2	-	2Wire	SQFP-T80C
MUS-IC BD34705KS2	±6.5 to ±7.5	±32	1.2	0.0004	12	+32 to -95 0.5/Step	8	+6 to -16 1/Step, -16 to -56 2/Step	2	-	2Wire	SQFP-T64
BD34701KS2	±6.5 to ±7.5	±22	1.5	0.0004	8	+32 to -95 0.5/Step	8	-	-	-	2Wire	SQFP-T52
BD3474KS2	±6.5 to ±7.5	±30	1.5	0.0004	12	+32 to -95 0.5/Step	6	-	-	Bass, Treble	2Wire	SQFP-T80C

2ch/4ch/6ch声音处理器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Output Noise Voltage (μVRms)	Distortion (%)	Selector	Main Volume (dB)	ch	Zone Volume (dB)		Tone Control	Serial Control	Package
								ch	ch			
BD3814FV	±5.0 to ±7.3	±7	1.0	0.001	-	0 to -95 1/Step	6	-	-	Bass, Treble	2Wire	SSOP-B40
BD34700FV	±6.5 to ±7.5	±22	1.5	0.0004	-	+32 to -95 0.5/Step	4	-	-	-	2Wire	SSOP-B40
BD3812F	±5.0 to ±7.3	±2	1.2	0.0050	-	0,6 to 18 2/Step, 0 to -103 1/Step	2	-	-	-	2Wire	SOP14

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6ch/9ch立体声输入选择器IC 最大输入电压4.2V

Part No.	Supply Voltage (V)	Current Consumption (mA)	Output Noise Voltage (μ Vrms)	Distortion (%)	Selector	Serial Control	Package
BD3843FS	± 4.0 to ± 7.3	± 3	1.0	0.004	6	2Wire	SSOP-A24
BD3841FS	± 5.0 to ± 7.3	± 3	1.0	0.004	9	2Wire	SSOP-A32

内置双频段均衡器的声音处理器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Volume (dB)	Fader		Parametric EQ	Loudest	LPF for Sub Woofer	Option	Serial Control	Output Noise Voltage (μ Vrms)	Distortion (%)	Package
			Single	Diff.			(dB)	Output								
BD37503FV	7.0 to 9.5	20	3	1	0 to +20	0 to -36, $-\infty$	0 to -63, $-\infty$	4	-	✓*	-	Anti-aliasing Filter*	I ² C BUS	5.8	0.001	SSOP-B20
BD37511FS	7.0 to 9.5	15	3	-	0 to +20	0 to -40	0 to -62, $-\infty$	4	-	-	-	-	I ² C BUS	6.0	0.005	SSOP-A20
BD37512FS	7.0 to 9.5	15	3	1	0 to +20	0 to -40	0 to -62, $-\infty$	4	-	-	-	-	I ² C BUS	6.0	0.005	SSOP-A20
BD37513FS	7.0 to 9.5	38	3	1	0 to +20	+15 to -79, $-\infty$	0 to -79, $-\infty$	4	-	✓	-	-	I ² C BUS	3.8	0.001	SSOP-A20
BD37514FS	7.0 to 9.5	38	3	1	0 to +20	+15 to -79, $-\infty$	0 to -79, $-\infty$	5	✓	✓	-	-	I ² C BUS	3.8	0.001	SSOP-A20
BD37515FS	7.0 to 9.5	38	3	1	0 to +20	+15 to -79, $-\infty$	+15 to -79, $-\infty$	5	✓	✓	✓	-	I ² C BUS	3.8	0.001	SSOP-A20
BD37521FS	7.0 to 9.5	38	3	1	0 to +20	+15 to -79, $-\infty$	0 to -79, $-\infty$	4	-	EXT	-	-	I ² C BUS	3.8	0.001	SSOP-A24
BD37522FS	7.0 to 9.5	38	4	1	0 to +20	+15 to -79, $-\infty$	0 to -79, $-\infty$	4	✓	✓	-	-	I ² C BUS	3.8	0.001	SSOP-A24
BD37523FS	7.0 to 9.5	38	4	1	0 to +20	+15 to -79, $-\infty$	+15 to -79, $-\infty$	5	✓	✓	✓	-	I ² C BUS	3.8	0.001	SSOP-A24
BD3870FS	4.5 to 9.5	8	3	-	0/6/12/18	0 to -87, $-\infty$	-	2	EXT	-	-	Surround	2Wire	4.5	0.01	SSOP-A24
BD3871FS	4.5 to 9.5	8	3	-	24/26/28	0 to -87, $-\infty$	-	2	EXT	-	-	Surround	2Wire	40 (Gv=24dB)	0.01	SSOP-A24
BD3490FV	4.75 to 9.50	7	4	-	0/2/4/6/8/12/16/20	0 to -87 (2ch Independent control), $-\infty$	-	2	EXT	-	-	Bass Boost, Surround	I ² C BUS	5.0	0.002	SSOP-B28
BD3491FS	4.75 to 9.50	7	6	-	0/2/4/6/8/12/16/20	0 to -87 (2ch Independent control), $-\infty$	-	2	EXT	-	-	Bass Boost, Surround	I ² C BUS	5.0	0.002	SSOP-A32

内置双频段均衡器的声音处理器：搭载低音、高音 *可排他性使用响度

EXT：由外置元件设定

BD37511FS、BD37512FS的引脚兼容。BD37513FS、BD37514FS、BD37515FS的引脚兼容。

BD37522FS和BD37523FS的引脚兼容。

模拟音频处理器

内置3频段均衡器的声音处理器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Volume (dB)	Fader		Parametric EQ	Loudest	LPF/HPF for Sub Woofer	Mixing ATT	Level Meter	Option	Serial Control	Output Noise Voltage (μVRms)	Distortion (%)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100	
			Single	Diff.			(dB)	Outputs													
BD37524FS	7.0 to 9.5	38	4	1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	-	-	✓	-	I ² C BUS	3.8	0.001	SSOP-A24	-	-
BD37531FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	-	-	-	-	-	I ² C BUS	3.8	0.001	SSOP-B28	-	-
BD37532FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	-	-	-	-	I ² C BUS	3.8	0.001	SSOP-B28	-	-
BD37533FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	✓	✓	-	-	I ² C BUS	3.8	0.001	SSOP-B28	-	-
BD37534FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	✓	✓	✓	-	I ² C BUS	3.8	0.001	SSOP-B28	-	-
BD37541FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	0 to -79, -∞	6	✓	EXT	-	✓	-	-	-	I ² C BUS	3.8	0.001	SSOP-B28	-	-
BD37542FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	EXT	LPF	✓	✓	-	-	I ² C BUS	3.8	0.001	SSOP-A32	-	-
BD37543FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	EXT	LPF+HPF	✓	✓	✓	-	I ² C BUS	3.8	0.001	SSOP-A32	-	-
BD37544FS	7.0 to 9.5	38	1/3/4	3/2/1	0 to +20	+15 to -79, -∞	+15 to -79, -∞	6	✓	-	LPF+HPF	✓	✓	-	Super Bass	I ² C BUS	3.8	0.001	SSOP-A32	-	-
BD37033FV-M	7.0 to 9.5	31	3/5	2/1	0 to +16	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF	✓	✓	✓	-	I ² C BUS	5.5	0.002	SSOP-B28	FSs	YES
BD37034FV-M	7.0 to 9.5 V _{ccL} to 13	36	3/5	2/1	0 to +16	+15 to -79, -∞	+15 to -79, -∞	6	✓	✓	LPF+HPF	✓	✓	✓	High Voltage Output	I ² C BUS	6.0	0.002	SSOP-B28	FSs	YES
BD3883FS	6.5 to 9.5	8	5	-	0/6/12/16/20/23/26/29	0 to -87, -∞	0/-10	2	EXT	-	-	-	-	-	Surround	2Wire	4.0	0.01	SSOP-A32	-	-
BD3403FV	6.5 to 9.5	16	5	-	0 to +26 (2/Step)	0 to -30 (2/Step)	0 to -59, -∞	2	EXT	-	-	-	-	-	Surround	2Wire	8.0	0.02	SSOP-B40	-	-

内置高级开关的通用电子音量控制器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Fader Volume (dB)	Outputs	Mixing		Post Filter	High-Voltage Output (dB)	Serial Control	Output Noise Voltage (μVRms)	Distortion (%)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
			Single	Diff.				ch	ATT (dB)								
BD3464FV	7.0 to 9.5	25	-	-	-	+23 to -79, -∞ (1/Step)	4	-	-	-	-	I ² C BUS	1.9	0.0004	SSOP-B20	-	-
BD3465FV	7.0 to 9.5	25	-	-	-	+23 to -79, -∞ (1/Step)	4	3	+0 to -64, -∞ (8/Step)	-	-	I ² C BUS	1.9	0.0004	SSOP-B20	-	-
BD3460FS	7.0 to 9.5	25	-	-	-	+23 to -79, -∞ (1/Step)	6	-	-	-	-	I ² C BUS	1.9	0.0004	SSOP-A24	-	-
BD3461FS	7.0 to 9.5	25	-	-	-	+23 to -79, -∞ (1/Step)	6	3	+0 to -64, -∞ (8/Step)	-	-	I ² C BUS	1.9	0.0004	SSOP-A24	-	-
MUS-IO BD34602FS-M	7.0 to 9.5	35	-	-	-	+23 to -79, -∞ (1/Step)	6	3	+0 to -79, -∞ (1/Step)	-	-	I ² C BUS	1.3	0.0004	SSOP-A24	FSs	YES
BD37067FV-M	7.0 to 9.5	37	2/3/4/5	4/3/2/1	+23 to -15 (1/Step)	+23 to -79, -∞ (1/Step)	6	1	-	✓	-	I ² C BUS	8	0.003	SSOP-B40	FSs	YES
BD37068FV-M	7.0 to 9.5 V _{ccL} to 17.8	30/7	1/2/3/4/5	5/4/3/2/1	+23 to -15 (1/Step)	+23 to -79, -∞ (1/Step)	6	1	-	✓	0/8.3	I ² C BUS (High-Voltage Mode)	23	0.003	SSOP-B40	FSs	YES
BD37069FV-M	7.0 to 9.5 V _{ccL} to 17.8	30/7	2/3/4/5	4/3/2/1	+23 to -15 (1/Step)	+23 to -79, -∞ (1/Step)	6	1	-	✓	2/4.6/8.3	I ² C BUS (High-Voltage Mode)	23	0.003	SSOP-B40	FSs	YES

内置3频段均衡器的声音处理器 : EXT : 由外部元件设定

BD37531FV、BD37532FV、BD37533FV和BD37534FV引脚兼容。

BD37541FS, BD37542FS、BD37543FS引脚兼容。BD37033FV-M、BD37034FV-M引脚兼容。

内置高级开关的通用电子音量控制器 : BD3464FS和BD3465FS引脚兼容。BD3460FS、BD3461FS、BD34602FS-M引脚兼容。

BD37067FV-M和BD37068FV-M引脚兼容。

◎ MUS-IO 标记表示MUS-IC™系列。MUS-IC™是ROHM Co., Ltd.的商标或注册商标。

作为罗姆音频IC的高端系列，充分实现音频元器件所需的性能参数和音质性能。

◎ ComfySIL™是ROHM Co., Ltd.的商标或注册商标。

*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

媒体解码器

AAC/WMA/MP3/WAV格式+SD存储卡+CD-ROM																
Part No.	Supply Voltage (V)	USB	SD	iPod	Serial I/F	Display Information	MP3	WMA	AAC	CD-ROM Mode	CD-ROM File System	MP3 Recording Format	File Search	Audio Output		Package
BU94605AKV	3.0 to 3.6	USB2.0 Full Speed	MMC SD, miniSD, microSD, SDHC	—	I ² C BUS	Folder number, File number, Play time, Folder name, File name, TAG (Artist, Album, Title)	MPEG1, 2, 2.5 LAYER1, 2, 3	WMA9 Standard	MPEG4 AAC-LC	Mode1, Mode2, form1/2, Romeo, Joliet	ISO 9660 Level1, 2	—	Search during the playback	Line I ² S SPDIF	VQFP80	
AAC/WMA/MP3/WAV格式+SD存储卡+CD-ROM+MP3录音																
Part No.	Supply Voltage (V)	USB	SD	iPod	Serial I/F	Display Information	MP3	WMA	AAC	CD-ROM Mode	CD-ROM File System	MP3 Recording Format	File Search	Audio Output		Package
BU94702AKV	3.0 to 3.6	USB2.0 Full Speed	MMC SD, miniSD, microSD, SDHC	—	I ² C BUS	Folder number, File number, Play time, Folder name, File name, TAG (Artist, Album, Title)	MPEG1, 2, 2.5 LAYER1, 2, 3	WMA9 Standard	MPEG4 AAC-LC	Mode1, Mode2, form1/2, Romeo, Joliet	ISO 9660 Level1, 2	MPEG1 Layer3 Sample Rate: 32, 44.1, 48kHz Bit Rate: 32, 64, 128, 192, 256, 320kHz	Search during the playback	Line I ² S SPDIF	VQFP80	

音频转换器

音频编解码器

音频编解码器																
Part No.	Supply Voltage (V)	ADC		DAC		Microphone Input	Speaker Output		Headphone Output	Filter		ALC	Package			
		ch/bit	ch/bit	ch/bit	ch/bit		Type	Monaural/Stereo		EQ	Notch					
BU26154MUV	HV _{DD} 2.7 to 5.5 LV _{DD} 2.7 to 3.6	1ch/24bit	2ch/24bit	1	AB/D	Monaural	Stereo	✓	✓	✓	VQFN040V6060					
BU26156RFS	HV _{DD} 2.7 to 5.5 LV _{DD} 2.7 to 3.6	2ch/24bit	2ch/24bit	2	AB/D	Stereo	Stereo	✓	✓	✓	HTSSOP-A44R					

音频DAC

PCM 768kHz/32bit, DSD 22.4MHz 立体声 音频D/A转换器												
Part No.	Supply Voltage			Output Channels	Peak Output Current (mApp)	Resolution (Bit)	SNR (dB)	THD+N (dB)	Dynamic Range (dB)	Sampling Frequency (kHz)	DSD Clock (MHz)	Package
	AVCC (V)	DVDD (V)	DVDDIO (V)									
MUS-IC BD34301EKV	4.5 to 5.5	1.4 to 1.6	3.0 to 3.6	2	9.8	32	130	-115	130	32 to 768	2.8, 5.6, 11.2, 22.4	HTQFP64BV
BD34352EKV	4.5 to 5.5	1.4 to 1.6	3.0 to 3.6	2	6.25	32	126	-112	126	32 to 768	2.8, 5.6, 11.2, 22.4	HTQFP64BV

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视频放大器

复合视频放大器

超小型 WL-CSP 无输出电容器 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μ A)	Output Capa-less	Max Output Level (V _{P-P})	Video Out→In Change Mode	Package (mm)
BH76906GU	2.5 to 3.45	15	6	-0.2 (4.5MHz)	-26 (18MHz)	Bias (150k Ω)	8th order 4.5MHz	0	✓	5.2	-	VCSP85H 1.6x1.6, H=1.0 Max
BH76912GU		15	12	-0.2 (4.5MHz)	-26 (18MHz)	Bias (150k Ω)	8th order 4.5MHz	0	✓	5.2	-	VCSP85H 1.6x1.6, H=1.0 Max
BH76916GU		15	16.5	-0.2 (4.5MHz)	-26 (18MHz)	Bias (150k Ω)	8th order 4.5MHz	0	✓	5.2	-	VCSP85H 1.6x1.6, H=1.0 Max

无输出电容器 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μ A)	Output Capa-less	Max Output Level (V _{P-P})	Package
BH76806FVM	2.5 to 3.45	16	6	-0.45 (4.5MHz)	-51 (23.5MHz)	Bias (150k Ω)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76809FVM		16	9	-0.45 (4.5MHz)	-51 (23.5MHz)	Bias (150k Ω)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76812FVM		15	12	-0.45 (4.5MHz)	-51 (23.5MHz)	Bias (150k Ω)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76816FVM		15	16.5	-0.45 (4.5MHz)	-51 (23.5MHz)	Bias (150k Ω)	8th order 4.5MHz	0	✓	5.2	MSOP8

小型/低消耗电流 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μ A)	Output Capa-less	Max Output Level (V _{P-P})	Video Out→In Change Mode	Package
BH76106HFV	2.6 to 5.5	7	6	0.1 (4.5MHz)	-45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	-	HVSOF6
BH76109HFV		7	9	0.1 (4.5MHz)	-45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	-	HVSOF6
BH76112HFV		7	12	0.1 (4.5MHz)	-45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	-	HVSOF6
BH76206HFV		8	6	-0.3 (6MHz)	-40 (27MHz)	Clamp	8th order 6MHz	0	✓	2.6	-	HVSOF6

内置视频开关 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	Switchers	Input type	Video Driver	Mute	Output Capa-less	Max Output Level (V _{P-P})		Package
										V _{CC} =3V	V _{CC} =5V	
BH76330FVM	2.8 to 5.5	10	6	0 (10MHz)	3 input-1 output	Clamp	✓	✓ (Standby)	✓	2.7	4.6	MSOP8
BH76331FVM		10	6	0 (10MHz)	3 input-1 output	Bias	✓	✓ (Standby)	-	2.8	4.6	MSOP8
BH76360FV		12	6	0 (10MHz)	6 input-1 output	Clamp	✓	✓ (Standby)	✓	2.7	4.6	SSOP-B16
BH76361FV		12	6	0 (10MHz)	6 input-1 output	Bias	✓	✓ (Standby)	-	2.8	4.6	SSOP-B16

视频开关

宽带 1ch视频开关

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	Switchers	Input type	Video Driver	Mute	Crosstalk (dB)	Max Output Level (V _{P-P})		Package
										V _{CC} =3V	V _{CC} =5V	
BH76332FVM	2.8 to 5.5	9	0	0 (30MHz)	3 input-1 output	Clamp	-	✓ (Standby)	-65 (4.43MHz)	1.8	3.8	MSOP8
BH76333FVM		8	0	0 (30MHz)	3 input-1 output	Bias	-	✓ (Standby)	-65 (4.43MHz)	1.9	3.4	MSOP8
BH76362FV		11	0	0 (30MHz)	6 input-1 output	Clamp	-	✓ (Standby)	-65 (4.43MHz)	1.8	3.8	SSOP-B16
BH76363FV		11	0	0 (30MHz)	6 input-1 output	Bias	-	✓ (Standby)	-65 (4.43MHz)	1.9	3.4	SSOP-B16

视频、音频开关

Part No.	Supply Voltage (V)	Video Circuit Current (mA)	Audio Circuit Current (mA)	Video Freq. Chara.1 (dB)	Video Freq. Chara.2 (dB)	Video Amplifier Gain (dB)	Audio Freq. Chara.1 (dB)	Audio Freq. Chara.2 (dB)	Audio Amplifier Gain (dB)	Residual Noise (μ Vrms)	Package
BH7649KS2	7.5 to 9.5	34	23	0 (6.75MHz)	-30	-3/-6/0/+3/+6	-0.5 (24kHz)	-26 (96kHz)	-6/0	20	SQFP-T52

其他

隔离放大器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	ch	Input type	Video Driver	Input Impedance (k Ω)	CMRR (dB)	Max Output Level (V _{P-P})	Package
BH7673G	4.5 to 5.5	4.8	0	0 (10MHz)	1	Bias	-	150	60	3.8	SSOP5

图像校正

面板用图像校正IC

Part No.	Supply Voltage (V)			Image Data Size	Control I/F	Input/Output Digital I/F	Image Adjustment	PWM Output	LVDS Transmitter	Package	Automotive Grade AEC-Q100
	V _{DD} Core	V _{DD} I/O	V _{DD} LVDS								
BU1523KV	1.65 to 1.95	3.0 to 3.6	3.0 to 3.6	Supports up to WVGA+ (864x480)	I ² C BUS	24bit RGB Interface 8bit YUV=4:2:2 ITU-R BT.656	✓	-	✓	VQFP100	Preparing
内置图像校正的视频编码器											
Part No.	Supply Voltage (V)			Image Data Size	Control I/F	Input/Output Digital I/F	Fog Reduction	Video Encoder	Package	Automotive Grade AEC-Q100	
	V _{DD} Core	V _{DD} I/O	A _{VDD}								
BU6521KV	1.4 to 1.6	2.7 to 3.6	2.7 to 3.6	ITU-R BT.656	I ² C BUS Serial EEPROM Interface	8bit YUV=4:2:2 ITU-R BT.656	✓	✓	VQFP48C	YES	

图像LSI

视频解码器

(LAPIS Technology产品)

CVBS/S-video 输入型

Part No.	Supply Voltage (V)	Input (Analog)		Output (Digital)	Feature	Operating Temperature (°C)	Package	Automotive Grade ^{*1}
		Terminal	Type					
ML86101A	3.3/1.5	CVBSx4 or CVBSx2+S-videox1 or S-videox2	NTSC PAL SECAM	ITU-R BT.656 YUV 8bit	Simple, small	-40 to +85	P-TQFP48 -0707-0.50-ZK6	YES
ML86112	3.3/1.2	CVBSx4 or differentialx2	NTSC PAL	MIPI CSI-2 (YUV422-8bit) ITU-R BT.656	Simple, small MIPI output I/P conversion	-40 to +105	P-WQFN32 -0505-0.50-W66	YES
ML86V7668A	3.3/2.5	CVBSx4 or CVBSx1+S-videox3	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16bit RGB 18bit	RGB output	-40 to +85	P-TQFP100 -1414-0.50-ZK6	YES
☆ ML86160	3.3/1.2	CVBSx4 or differentialx2	NTSC PAL High Definition Analog	ITU-R BT.656 MIPI CSI-2 (RGB888, YUV422-8bit) (T.B.D)	High Definition Analog Decoder HD-ACT ^{*2}	-40 to +105 (T.B.D)	P-WQFN36 -0606-0.50-xxx (T.B.D)	YES

CVBS/S-video/Component/RGB 输入型

Part No.	Supply Voltage (V)	Input (Analog)		Output (Digital)	Feature	Operating Temperature (°C)	Package	Automotive Grade ^{*1}
		Terminal	Type					
ML86V7675	3.3/1.5	CVBSx4 +(Comp or S-video)x1 +Compx1	NTSC PAL SECAM	ITU-R BT.656 YUV 8bit	WVGA, EGA analog RGB supported	-40 to +85	P-TQFP64 -1010-0.50-ZK6	YES

*1 关于AEC-Q100, 请咨询销售人员。

*2 HD-ACT(High Definition-Analog Composite Transport)利用独特的高分辨率技术清晰显示模拟影像。

☆: 开发中

视频编码器

(LAPIS Technology产品)

CVBS 输出型

Part No.	Supply Voltage (V)	Input (Digital)	Output (Analog)		Feature	Operating Temperature (°C)	Package	Automotive Grade ^{*1}
			Terminal	Type				
ML86V76580	3.3/1.8	ITU-R BT.656 YUV 8bit	CVBS	NTSC PAL	75Ω drive	-40 to +85	P-TQFP48 -0707-0.50-ZK6	YES
ML86640	3.3	ITU-R BT.656 YUV 8/16/24bit RGB 24bit	CVBS	NTSC PAL	75Ω drive P/I conversion	-40 to +105	P-TQFP48 -0707-0.50-ZK6	YES
☆ ML86660	3.3 (1.8)/1.2	ITU-R BT.656 YUV 8bit MIPI CSI-2 (RGB565/888, YUV422-8bit) (T.B.D)	CVBS	NTSC PAL High Definition Analog	High Definition Analog Encoder HD-ACT ^{*2}	-40 to +105 (T.B.D)	WQFN40 -0606-0.50-xxx (T.B.D)	YES

*1 关于AEC-Q100, 请咨询销售人员。

*2 HD-ACT(High Definition-Analog Composite Transport)利用独特的高分辨率技术清晰显示模拟影像。

☆: 开发中

视频接口

(LAPIS Technology产品)

LVDS/MIPI/eDP 输入/输出型

Part No.	Supply Voltage (V)	Input	Output	Feature	Operating Temperature (°C)	Package	Automotive Grade ^{*1}
☆ ML86797	3.3/1.2	Single LVDS (RGB666/888) MIPI CSI-2 (RGB565/666/888 YUV422-8bit) MIPI DSI (RGB888)	Single/Dual LVDS (RGB666/888)	MIPI CSI-2/DSI to LVDS	-40 to +105 (T.B.D)	P-WQFN64 -0909-0.50-63 (T.B.D)	YES
☆ ML86798	3.3/1.2	MIPI CSI-2 (RGB565/666/888 YUV422-8bit) MIPI DSI (RGB565/666/888 YUV422-8bit)	MIPI CSI-2 (RGB565/666/888 YUV422-8bit) eDP (RGB565/666/888)	MIPI CSI-2/DSI to eDP MIPI DSI to MIPI CSI-2	-40 to +105 (T.B.D)	P-WQFN64 -0909-0.50-63 (T.B.D)	YES
☆ ML86799	3.3/1.2	Single/Dual LVDS (RGB666/888)	eDP (RGB565/666/888)	LVDS to eDP	-40 to +105 (T.B.D)	P-WQFN64 -0909-0.50-63 (T.B.D)	YES

*1 关于AEC-Q100, 请咨询销售人员。

☆: 开发中