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Monollinic ICs

7-52-13-25 7-77-21

• VTR Motor Drivers (continued)

I	Туре	Function		kage	Features	Referenc Catalog	
+	· · · · · · · · · · · · · · · · · · ·		Configuration	NO. OF PLAS		Catalog	
	BA6209/BA6209N/ BA6209FP			Built-in motor drive power transistors. Built-in motor stopping brake function. 1.6A drive capability.	No.312		
	BA6219B/BA6219BFP	Reversible motor driver	SIP-P/ MFP	10/24	Built-in motor drive power transistors. Built-in motor brake function. 2.2A drive capability.	No.312	
	BA6222	Reversible motor driver	SIP-P	10	Built-in motor drive power transistors. Built-in motor stopping brake function. 2.2A drive capability. Built-in control input amplifier.	No.312	
	BA6229	Reversible motor driver	SIP-P	10	Built-in motor deive power transistors. Automatic control for normal rotation, reverse rotation, brake and stop of operation. 1.2A drive.	No.312	
	BA6418N	Reversible motor drive	SIP	9	Built-in motor drive power transistors for 4 drive control modes: forward, reverse, brake, and stop; 0.7A drive capability.	No.312	
	BA6238A/BA6238AN	2-ch Reversible motor driver	SIP-P/ SIP	10	2 built-in motor drive power transistors. 3-input, 5-mode selection logic. 1 6A drive capability.	No.312	
	BA6239A/BA6239AN	2-ch Reversible motor driver	SIP-P/ SIP	10	2 built-in motor drive power transistors. 3-input, 5-mode selection logic. 1.2A drive capability.	No.312	
	BA6246/BA6246N	2-ch Reversible motor driver	SIP-P/ SIP	10	2 built-in motor drive power transistors. 3-input, 6-mode selection logic. 1.0A drive capability.	No.312	
	BA6247/BA6247N	2-ch Reversible motor driver	SIP-P/ SIP	10	2 built-in motor drive power transistors. 3-input, 5-mode selection logic. 1.0A drive capability.	No.312	
	BA6248	2-ch Reversible motor driver	SIP-P/ SIP	10	2 built-in motor drive power transistors. 3-input, 5-mode selection logic. 1.6A drive capability.		
ſ	BA6249/BA6249N	2-ch Reversible motor driver	SIP-P/ SIP	10	2 built-in motor drive power transistors. 3-input, 6-mode selection logic.	No.312	
Γ	BA6259N	2-ch Reversible motor driver	·SIP	10	1.0A drive capability.	No.312	
	BA6411	2-phase DD molor driver	SIP-P	12	2-phase, all-wave motor driver; low switching noise due to linear drive; includes constant voltage terminal for Hall element power supply; built-in forward/reverse switching function.	No.312	
	BA6413	2-phase DD motor driver	SIP-P	12	2-phase, all-wave motor driver; low switching noise due to linear drive; independent Hall element power supply; built-in forward/reverse switching function; 1.2A drive.	No.312	
7	BA6414FS/BA6414FP	2-phase DD motor driver	MFS/MFP	24	2-phase, all-wave motor driver; low switching noise includes constant voltage terminal for Hall element power supply, built-in hysterisis amp.		
	BA6432S	3-phase DD motor driver	DIPS-P	24	High-performance motor driver compatible with switching regulators,	No.312	
F	BA6431F	3-phase DD motor driver	MF	28	contains a pseudo-linear type ripple cancelling circuit.	No.312	
	BA6435S	3-phase DD motor driver	DIPS-P-F	24	High-performance motor drivers compatible with switching	No.312	
	BA6436P	3-phase DD motor driver	DIPS-P	24	regulators, containing a pseudo-linear ripple canceling circuit; internal output transistor anti-saturation circuit	No.312	
	BA6453FP	3-phase DD motor driver	MFP	24	Pseudo linear system; built-in amplifier and hysterisis amp.		
	BA6455FS	3-phase DD motor driver	MFS	24	3-phase, all-wave motor driver; with torque limiting input terminal; with switching regulator function.	No.312	
Γ	BA6456P	3-phase DD motor driver	DIPS-P	24	3-phase, all-wave motor drivers compatible with switching	-	
	BA6456FS	3-phase DD motor driver	MFS	24	regulators: With 2 amplifier circuits.	No.312	
	BA6457P	3-phase DD motor driver	DIPS-P	24	Pseudo linear system; built-in amplifier and hysterisis amp.	-	
ſ	BA6458FP	3-phase DD motor driver	MFP	24	Pseudo linear system; built-in amplifier and hysterisis amp.		
	BA6459P/BA6459S	3-phase DD motor driver	DIPS-P/ P-F	24	3-phase, all-wave motor drivers compatible with switching	No.312	
	BA6459FS	3-phase DD motor driver	MFS	24	regulators: With 2 amplifier circuits.		
,	BA6462FS/BA6462FP	3-phase DD motor driver	MFS/MFP	24	Three-phase, pseudo-linear motor driver	_	

Note: Some of the MF packages need a lead time for delivery. Please confirm with us before ordering.

Package symbol legend

SIP : Single-in-line package

DIP

MF

: Dual-in-line package : Mini-flat package (SOP) : Zig-Zag-in-line package (ZIP) LF

QFP : Quad flat package

MFS : MF shrink package

MFP : Power shrink MF package DIPS : Shrink DIP package

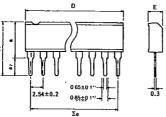
: Power version

-P -F

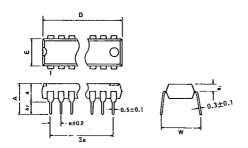
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Monolline ICs 7-90-20

Dimensions (Unless otherwise specified, dimensions are shown in Typ. values.) SIP rest = re



DIP/DIPS



• SIP Dimensions (Unit: mm)

		· · · · · · · · · · · · · · · · · · ·				
Package	A	a	82	D	Σe	E
SIP 5	9.7	6.2	3.5	12.0	10.16	2.4
SIP 7	9.7	6.2	3.5	17.0	15.24	2.8
SIP 8	10.5	7.0	3.5	19.5	17.78	2.8
SIP 9	10.5	7.0	3.5	22.0	20.32	2.8
SIP 10	10.5	7.0	3.5	25.2	22.86	2.8

*1 SIP 10pin: 0.6 *2 SIP 10pin: 0.8

• DIP Dimensions (Unit: mm)

Package	A	а	a ₁	a ₂	D	e	Σe	E	W		
DIP 8	6.8	3.6	1.1	3.2	9.3	2.54	7.62	6.5	8.8		
DIP 14	6.94	3.65	1.65	3.29	19.4	2.54	15.24	6.5	8.8		
DIP 16	6.94	3.65	1.65	3.29	19.4	2.54	17.78	6.5	8.8		
DIP 18	6.94	3.65	1.65	3.29	22.9	2.54	20.32	6.5	8.8		
DIP 20	7.09	3.65	1.65	3.44	26.3	2.54	22.86	6.5	8.8		
DIP 22	7.09	3.65	1.65	3.44	26.3	2.54	25.40	6.5	8.8		
DIP 24	7.51	4.22	1.8	3.29	32.0	2.54	27.94	13.8	16.5		
DIP 28	7.51	4.22	1.8	3.29	37.1	2.54	33.02	13.8	16.5		
DIP 40	7.7	4.5	1.8	3.2	52.3	2.54	48.26	13.8	16.5		
DIPS 18	7.35	3.65	1.65	3.7	19.4	1.778	14.224	6.5	8.8		
DIPS 22	7.35	3.65	1.65	3.7	19.4	1.778	17.78	6.5	8.8		
DIPS 24	7.4	4.0	1.7	3.4	22.8	1.778	19.558	6.5	8.8		
DIPS 30	7.9	4.7	1.7	3.2	28.0	1.778	24.892	8.4	11.4		
DIPS 32	7.9	4.7	1.7	3.2	28.0	1.778	26.67	8.4	11.4		
DIPS 42	7.7	4.5	1.8	3.2	37.1	1.778	35.56	13.8	16.5		

• MF Dimensions (Unit: mm)

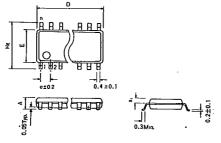
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Package	A	a1	D	HE	e	E
MF 8	1.5	0.65	5.0	6.2	1.27	4.4
MF 14	1.5	0.65	8.7	6.2	1.27	4.4
MF 16	1.5	0.65	10.0	6.2	1.27	4.4
MF 18	1.8	0.8	11.2	7.8	1.27	5.4
MF 20	1.8	0.8	12.5	7.8	1.27	5.4
MF 22	1.8	0.8	13.7	7.8	1.27	5.4
MF 24	1.8	0.8	15.0	7.8	1.27	5.4
MF 28	2.2	1.0	18.5	9.9	1.27	7.5
MFS 16	1.5	0.65	6.6	6.2	0.8	4.4
MFS 20	1.8	0.8	8.7	7.8	0.8	5.4
MFS 24	1.8	0.8	10.0	7.8	0.8	5.4
MFP 24	1.9	0.8	13.7	7.8	0.8	5.4
MFP 28	2.2	0.95	18.5	9.9	0.8	7.5

• LF Dimensions (Unit: mm)

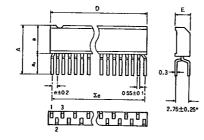
Package	A	а	a ₂	D	Σe	е	E
LF 9	9.8	5.0	4.8	12.0	10.16	1.27	2.4
LF 12	9.8	5.0	4.8	17.0	13.97	1.27	2.8
LF 16	9.9	5.8	4.1	19.5	19.05	1.27	2.8
LF 18	9.9	5.8	4.1	22.0	21.59	1.27	2.8
LFS 24	10.0	5.8	4.2	22.0	20.447	0.889	2.8

Monolithic IC

MF/MFS/MFP



LF/LFS



ROHM CO LTD

Monellinis ICs

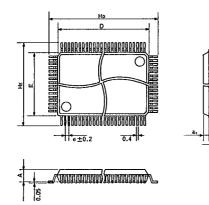
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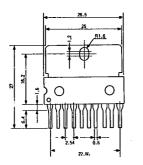


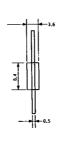
• QFP Dimensions (Unit: mm)

Package	Α	a	D	е	E	Η _E	H _D	L
QFP 32	1.45	0.65	7.0	0.8	7.0	9.0	9.0	0.4
QFP 44	2.15	1.0	10.0	0.8	10.0	14.0	14.0	1.2
QFP 64	2.15	1.0	20.0	1.0	14.0	18.0	24.0	1.2
QFP 80	2.7	1.275	20.0	0.8	14.0	18.0	24.0	1.2
QFPS 56	2.15	1.0	10.0	0.65	10.0	12.4	12.4	0.5
QFPS 80	2.7	1.275	14.0	0.65	14.0	16.4	16.4	0.5
QFPS 100	2.7	1.275	20.0	0.65	14.0	18.0	24.0	1.2

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SIP-P 10 pin





SIP-P 12 pin

