



Monolithic ICs

7-52-33-61



7-52-13-25

● FDD

☆ Under Development

Type	Function	Package		Features	Reference Catalog
		Configuration	No. of pins		
BA6580DK	Read/write amplifier for FDD	QFP	44	May be fitted to 5V single power supply, or 5V/12V power supply. Built-in control logic for read and write circuits. TTL level read data output. Applicable to double sided recording and 3", 3.5", and 5" FDD.	No.3121
☆ BA6587K	Read/write amplifier for FDD	QFP	44	May be fitted to 5V single power supply, or 5V/12V power supply. Built-in control logic for read and write circuits. TTL level read data output. Applicable to double sided recording and 3", 3.5", and 5" FDD. Power-saving feature 1M/2M.	No.3121
BA6588K	Read amplifier for FDD	QFP	44		
BU9500K	FDD controller	QFP	64	Operates on a single 5V power supply. Includes all functions required in an FDD controller. Adaptable to 3", 3.5", and 5" FDD.	No.3121
BA6470FP	3-phase motor drive for FDD spindle	MFP	24	Motor drive for 3.5" FDD; internal digital servo.	No.3121
BA6471FP	3-phase motor driver for FDD spindle	MFP	24	Drives a 3.5" FDD; internal digital servo circuit; power save feature; $f_{osc} = 460.8\text{kHz}$; 3 versions available in different combinations of Start/Stop and Speed Control input modes.	No.3121
BA6472FP	3-phase motor driver for FDD spindle	MFP	24		
BA6473FP	3-phase motor driver for FDD spindle	MFP	24	For 3.5" FDD; internal digital servo; with power-saving function. $f_{osc} = 491.52\text{kHz}$	—
BA6474FP	3-phase motor driver for FDD spindle	MFP	24		
BA6475FP	3-phase motor drive for FDD spindle	MFP	24	Drives a 3.5" FDD; internal digital servo circuit; power save feature; $f_{osc} = 1000.8\text{kHz}$; excellent immunity to line noise; short start-up time; 2 versions available in two Start/Stop control input modes.	—
BA6476FP	3-phase motor driver for FDD spindle	MFP	24		
BA6478FP	3-phase motor driver for FDD spindle	MFP	24	Drives a 3.5" FDD; internal digital servo circuit; power save feature; $f_{osc} = 1000.8\text{kHz}$; excellent immunity to line noise; short start-up time.	—
New BA6485FP	3-phase motor driver for FDD spindle	MFP	24	Drives a 3.5" FDD; internal digital servo circuit; power save feature; $f_{osc} = 1000.8\text{kHz}$; excellent immunity to line noise; short start-up time; FG amp. gain controllable with external resistor.	—

● Fan Motor Drivers

BA6402F	2-phase half-wave motor drivers	MF	8	Requires external power transistor; $I_{OMAX} = 70\text{mA}$	No.3121
BA6412	2-phase half-wave motor drivers	DIP	8	Requires external power transistor; $I_{OMAX} = 70\text{mA}$	No.3121
BA6404/BA6404F	2-phase half-wave motor drivers	DIP/MF	8	Requires external power transistor; built-in auto reset circuit; $I_{OMAX} = 70\text{mA}$	No.3121
BA6406/BA6406F	2-phase half-wave motor drivers	DIP/MF	8	Requires external power transistor; built-in auto reset circuit; $I_{OMAX} = 70\text{mA}$	No.3121
New ☆ BA6407	2-phase half-wave motor drivers	DIP	8	Built-in power transistor and auto reset circuit; $I_{OMAX} = 1$; A: lock-up detection output	—
New ☆ BA6408FS	2-phase half-wave motor drivers	MFS	16	Built-in power transistor and auto reset circuit; $I_{OMAX} = 1$; A: lock-up detection output	—



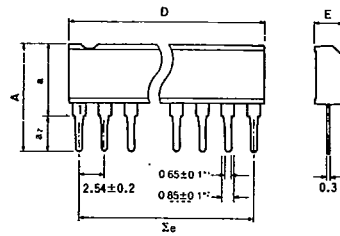
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Dimensions (Unless otherwise specified, dimensions are shown in Typ. values.)

SIP

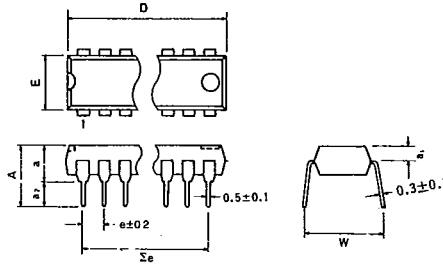


• SIP Dimensions (Unit: mm)

Package	A	a	a ₂	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

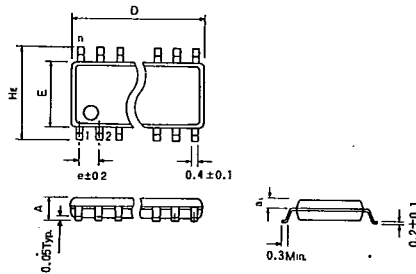
DIP/DIPS



• DIP Dimensions (Unit: mm)

Package	A	a	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

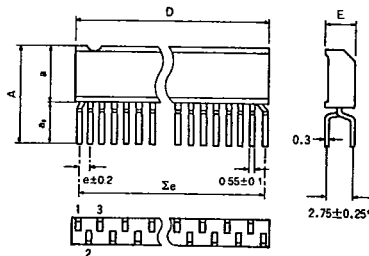
MF/MFS/MFP



• MF Dimensions (Unit: mm)

Package	A	a ₁	D	H _E	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/LFS



• LF Dimensions (Unit: mm)

Package	A	a	a ₂	D	Σe	e	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

*LFS 24: 2.54±0.25

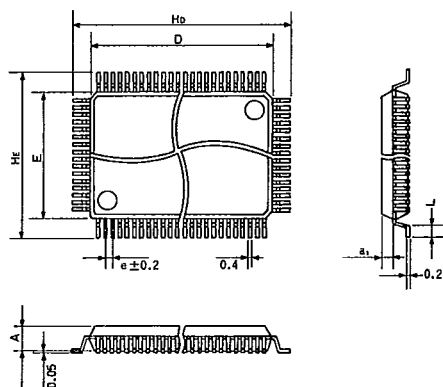


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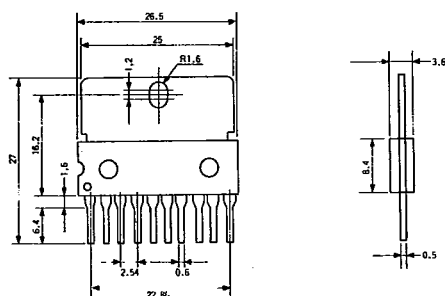
QFP/QFPS



• QFP Dimensions (Unit: mm)

Package	A	a ₁	D	e	E	H _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

SIP-P 10 pin



SIP-P 12 pin

