

Voltage regulator

●3 terminal regulator

Part No.	Supply voltage range (V)	Output voltage (V)													Output current (mA)	Feature	Package
		Rated voltage	5	6	7	8	9	10	12	15	18	20	24				
BA704	3.3~10	2.65												10	Wide input voltage range. Good line regulation.	TO-92	
BA707	4.3~10	3.3												10		TO-92	
BA714	4~7	3.3												0.3	Suitable for LCD driver.	FTR	
BA178M  Series														500	Built-in short circuit current protection and thermal shut down circuit.	TO-220FP	
BA178  Series														1000		TO-220FP	

●Variable output supply voltage

Part No.	Supply voltage range (V)	Number of circuit	Output voltage (V)	Stand-by function	Output voltage switch pin	Feature	Package
BA3960	4.5~22	2	1.5~21	○	○	Output voltage can be set by external resistor. Built-in output current control circuit and temperature protection circuit. Low saturation PNP output.	HSIP-B12

●System power supply BA392X/BA393X/BA394X/BA395X/BA396X series

	Part No.	Supply voltage range (V)	Standard supply voltage (V)	Output voltage (V)						Stand-by function	Reference voltage	Mode switch	Reset output	Package
				A	B	C	D	E	F					
	BA3922	5.0~22	15	12	5	7.5		7.5		○	○	○	○	SIP-M12
	BA3924	5.0~22	12	9	5	7.5		7.5		○	○	○	○	SIP-M12
	BA3932	6.5~22	16	15	5	9	5	8	5	○		○		SIP-M12
	BA3933	6.5~22	16	9	5	7.5	5	7.5	5	○		○		SIP-M12
	BA3935	6.5~22	16	9.5	5	9	5	7.5	5	○		○		SIP-M12
New	BA3936	6.5~22	12		5	8	5	8	5	○		○		SIP-M12
New	BA3938	6.5~22	15	11	5	9	14.7	8.5		○	○			HSIP-B12
New	BA3962A	6.5~22	12	7	5					○	○	○	○	HSIP-10
New	BA3940	6.5~22	15	9	6.5	6.5	5			○	○	○		SIP-M12
New	BA3950	6.5~22	18	13.3	12	10	5.6			○	○	○		SIP-M12

Notes : 1. When operated from lower voltage than output voltages listed above, the output is the input supply voltage minus the drop voltage across output transistors.

●System power supply BA3900/BA3910 series

Part No.	Supply voltage BACK UP (V)	Standard supply voltage BACK UP (V)	Output voltage (V)							Stand-by current (mA)	Muting	Output switch pin	Chip enable output	Package
			A	B	C	D	E	F	G					
BA3900	10~16	13.2	5.6	9.0	8.8	8.8				2.7	○	○	○	SIP-M12
BA3902	10~16	13.2	5.0	9.0	8.5	8.5				0.7	○	○	○	SIP-M12
BA3904A	10~16	13.2	5.6	9.0	8.55	8.55				0.7	○	○	○	SIP-M12
BA3906	9.2~16	13.2	5.6	8.3	8.3	8.3				0.7	○	○	○	SIP-M12
BA3910B	9.6~24	13.2	5.6	8.7	8.7	8.7	12.8	12.8		0.65		○		SIP-M12
BA3912	9.6~24	13.2	5.6	9.0	8.55	8.55	12.7	12.7		0.65		○		SIP-M12
BA3913	9.6~24	13.2	5.6	8.3	8.3	8.3	12.7	12.7		0.65		○		SIP-M12
BA3914A	9.6~24	13.2	5.7	8.5	8.5	8.5	12.7			0.8	○	○		SIP-M12
BA3916	9.6~24	13.2	5.2	8.7	8.3	8.3	12.7			0.4		○	○	SIP-M12
BA3915	9.6~24	13.2	5.0	8.5	8.5	8.5	8.5	12.7	12.7	0.4	○	○		SIP-M16

Notes : 1. When operated from lower voltage than output voltages listed above, the output is the input supply voltage minus the drop voltage across output transistors.

2. Under development

●Switching regulator

Part No.	Supply voltage (V)	Function	Feature	Package
BA6122A/AF	8~16	2ch switching regulator	It is available to output 5V power supply only, with 9V stop function.	ZIP16/SOP16
BA6149LS	8~18	6ch switching regulator	Frequency of triangle wave generation circuits is accurate because of using ceramic oscillator.	SZIP24
BA616N/F	4.5~16	DC-DC converter for electronic tuning	Built-in temperature compensation circuit, good output voltage stability	SIP5/SOP8
BA9700A/AF	3.55~24	1ch switching regulator controller	Permits desired output voltage such as Step-up, Step-down, Inverting, etc.	DIP14/SOP14
BA9701/F	2.5~7.5	1ch switching regulator controller for slave	Composed of error amplifier, PWM comparator and output driver.	DIP8/SOP8
BA9702FS	3.6~23	3ch switching regulator controller	Built-in independent short circuit protections for each channel. Power saving pin.	SSOP-A24
BA9703K	3.6~18	3ch switching regulator controller	Output block is push-pull type (pseudo-totem pole type), so value of on and off currents can be set independently.	QFP32
New BA9705AK	3.6~18	3ch switching regulator controller	Compatible with BA9703K. Built-in reference voltage which is highly accurate as $\pm 1\%$.	QFP32
New BA9706K	3.6~18	3ch switching regulator controller	Same as BA9705AK but enhanced current capacity at output off.	QFP32
BA9707KV	3.5~12	4ch switching regulator controller	High switching frequency (1MHz). Synchronizable with 3.58 MHz.	VQFP48
BA9732	2.5~12	6ch switching regulator	1MHz Vref $\pm 1\%$ Low voltage operation	VQFP64

Note : 1. Under Development

●DC-DC converter (hybrid IC)

Part No.	Input voltage	Output voltage	Output current	Feature	Package	Dimensions
BP5005	8~30	5	1A		SIP9pin	33 × 29 × 15
New BP5020	8~38	5	1A	Small	SIP9pin	28 × 24 × 12.7
BP50M05	8~30	5	0.5A		SIP9pin	32 × 29 × 15
New BP5021	8~38	5	0.5A	Small	SIP9pin	26 × 24 × 11.6
BP50M12	15~30	12	0.5A		SIP9pin	32 × 29 × 15
New BP5022	15~38	12	0.5A	Small	SIP9pin	26 × 24 × 11.6
BP51L05	8~20	-5	100mA		SIP9pin	30 × 29 × 13
BP51L12	8~20	-12	100mA		SIP9pin	30 × 29 × 13
BP5302	5~14	-24	30mA	For LCD variable voltage output. Overcurrent protection.	SIP9pin	26 × 14.7 × 6
BP5302F					SIP9pin (L Formed)	26 × 15.5 × 6

Notes : 1. For packaging, see the Packaging section in Hybrid ICs on P.58.