

Selection Guides

AMS-173-Z*

ALLEGRO and SANKEN ICs and PMCMs PRODUCT SELECTION GUIDES

- Power Sink Drivers
in order of output current
- Power Source Drivers
in order of output current
- High-Voltage (≥ 60 V) Peripheral Power and Display Drivers
in order of output voltage
- Bridge and Half-Bridge Drivers
in order of output current
- BiMOS II & DABiC IV Intelligent Power Interface Drivers
serial-input latched drivers
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- Devices for Printer Applications

as of January, 1998

Allegro/Sanken ICs/PMCMs Product Selection Guides

POWER SINK DRIVERS SELECTION GUIDE

IN ORDER OF 1) OUTPUT CURRENT, 2) OUTPUT VOLTAGE, 3) NUMBER OF DRIVERS

Output Ratings *			Features					Part Number †
mA	V	#	Serial Input	Latched Drivers	Diode Clamp	Saturated Outputs	Internal Protection	
100	20	8	–	–	–	X	–	2595
	30	32	X	X	–	–	–	5833
	40	32	X	X	–	X	–	5832
250	150	7	–	–	X	–	–	7003
300	45	1		Hall Sensor/Driver	X	–	X	5140
	50	8	–	–	X	X	–	2596
	60	2		Hall Sensor/Driver	–	X	–	5275
	60	4	–	–	X	X	X	2557
350	50	4	–	X	X	–	–	5800
	50	8	–	X	X	–	–	5801
	50	8	X	X	–	–	–	5821
	50	8	X	X	X	–	–	5841
	80	8	X	X	X	–	–	5842
450	30	28	Dual 4 to 14-Line Decoder/Driver			–	–	6817
600	60	4	–	–	–	X	X	2547
	60	4	–	–	X	X	X	2549
700	60	4	–	–	X	X	X	2543 and 2559
750	50	8	–	–	X	X	–	2597
900	14	2		Hall Sensor/Driver	X	X	X	3625
	26	2		Hall Sensor/Driver	X	X	X	3626
1000	46	4	Stepper Motor Controller/Driver			MOS	–	7024 and 7029
1200	46	4	Microstepping Controller/Driver			MOS	–	7042
1250	50	4	Stepper Motor Translator/Driver			–	X	5804
	50	4	–	–	X	–	–	2064 and 2068
1500	80	4	–	–	X	–	–	2065 and 2069
1600	50	9	X	X	–	–	X	5829
1800	50	4	–	–	X	–	–	2544
	50	4	–	–	X	–	–	2540
3000	46	4	Stepper Motor Controller/Driver			MOS	–	7026
4000	50	4	–	–	X	–	–	2878
	80	4	–	–	X	–	–	2879

* Current is maximum specified test condition, voltage is maximum rating. See specification for sustaining voltage limits or over-current protection voltage limits.

† Complete part number includes additional characters to indicate operating temperature range and package style.



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***POWER SOURCE DRIVERS
SELECTION GUIDE***

IN ORDER OF 1) OUTPUT CURRENT, 2) OUTPUT VOLTAGE, 3) NUMBER OF DRIVERS

Output Ratings *			Features					Part Number †
mA	V	#	Serial Input	Latched Drivers	Diode Clamp	Saturated Outputs	Internal Protection	
-25	60	8	–	X	–	–	–	5815
	60	10	X	X	Active Pull-Down	–	–	5810-F
	60	12	X	X	Active Pull-Down	–	–	5811
	60	20	X	X	Active Pull-Down	–	–	5812-F
	60	32	X	X	Active Pull-Down	–	–	5818-F
	85	8	–	–	–	–	–	6118
-120	-25	8	–	–	X	X	–	2585
	30	8	–	–	X	X	–	2985
	50	8	X	X	X	X	–	5895
-350	35	8	–	–	X	–	X	2987
	50	8	–	–	X	–	–	2981 and 2982
	50	8	X	X	X	–	–	5891
	-50	8	–	–	X	–	–	2580
	80	8	–	–	X	–	–	2983 and 2984
	80	8	X	X	X	–	–	5890
	-80	8	–	–	X	–	–	2588

* Current is maximum specified test condition, voltage is maximum rating. See specification for sustaining voltage limits or over-current protection voltage limits.

† Complete part number includes additional characters to indicate operating temperature range and package style.

HIGH-VOLTAGE (≥ 60 V) PERIPHERAL POWER AND DISPLAY DRIVERS

IN ORDER OF 1) OUTPUT VOLTAGE, 2) OUTPUT CURRENT, 3) NUMBER OF DRIVERS

Output Ratings*			Features					Part Number †	
V	mA	#	Serial Input	Latched Drivers	Diode Clamp	Saturated Outputs	Internal Protection		
60	-25	8	–	X	–	–	–	5815	
	-25	10	X	X	Active Pull-Down	–	–	5810-F	
	-25	12	X	X	–	–	–	5811	
	-25	20	X	X	Active Pull-Down	–	–	5812-F	
	-25	32	X	X	Active Pull-Down	–	–	5818-F	
	300	2	Hall Sensor/Driver			–	X	–	5275 ‡
	600	4	–	–	–	X	X	2547	
	600	4	–	–	X	X	X	2549	
	600	4	–	–	X	X	X	2559	
	700	4	–	–	X	X	X	2543	
4000	4	–	–	X	–	–	2944		
80	-350	8	–	–	X	–	–	2983 and 2984	
	350	8	–	X	X	X	–	5842	
	-350	8	X	X	X	–	–	5890	
	1500	4	–	–	–	X	–	2065 and 2069	
	4000	4	–	–	X	–	–	2879	
85	-25	8	–	–	–	–	–	6118	
150	250	7	–	–	X	–	–	7003	

* Current is maximum test condition; voltage is absolute maximum allowable.
Negative current is defined as coming out of (sourcing) the output.

† Complete part number includes additional characters to indicate operating temperature range and package style.

‡ Hall-Effect sensor.

BRIDGE & HALF-BRIDGE DRIVERS SELECTION GUIDE

IN ORDER OF 1) OUTPUT CURRENT AND 2) OUTPUT VOLTAGE

Output Ratings *		Description	Features			Part Number †
			Internal Diodes	Outputs	Internal Protection	
mA	V					
±750	45	Dual PWM Full Bridge	X	Bipolar	X	2916
	45	Dual PWM Full Bridge	X	Bipolar	X	2919
±800	33	Dual PWM Full Bridge	X	Bipolar	X	3964
±900	14	3-Ø Back-EMF Controller/Driver	X	DMOS	X	8902-A
±1000	7.0	3-Ø Back-EMF Controller/Driver	X	NMOS	X	8984
±1300	50	PWM Full Bridge	X	Bipolar	X	3953
±1500	45	Dual PWM Full Bridge	X	Bipolar	X	2917
	45	Dual PWM Full Bridge	X	Bipolar	X	2918
	50	Dual PWM Full Bridge	§	Bipolar	X	2927
	50	PWM Microstepping Full Bridge	X	Darlington	X	3955
±2000	45	3-Ø Brushless Controller/Driver	X	Darlington	X	2936
	50	Dual Full Bridge	X	Darlington	X	2998
	50	PWM Full-Bridge	X	Darlington	X	3951
	50	PWM Full-Bridge	X	Darlington	X	3952
±3000	45	PWM Control	X	Darlington	–	2962
±3400	45	PWM Control	X	Bipolar	X	2961
±4000	14	3-Ø Brushless Controller/Driver	X	DMOS	X	8925

* Current is maximum specified test condition, voltage is maximum rating. See specification for sustaining voltage limits or over-current protection voltage limits.

† Complete part number includes additional characters to indicate operating temperature range and package style.

§ Internal flyback diodes only.

**Allegro/Sanken
ICs/PMCMs
Product Selection Guides**

***BiMOS II (Series 5800) & DABiC IV (Series 6800)*
INTELLIGENT POWER INTERFACE DRIVERS
SELECTION GUIDE**

Function	Output Ratings *		Part Number †
SERIAL-INPUT LATCHED DRIVERS			
8-Bit (saturated drivers)	-120 mA	50 V‡	5895
8-Bit	350 mA	50 V	5821
8-Bit	350 mA	50 V‡	5841
8-Bit	350 mA	80 V‡	5842
9-Bit	1.6 A	50 V	5829
10-Bit (active pull-downs)	-25 mA	60 V	5810-F
12-Bit (active pull-downs)	-25 mA	60 V	5811
20-Bit (active pull-downs)	-25 mA	60 V	5812-F
32-Bit (active pull-downs)	-25 mA	60 V	5818-F
32-Bit	100 mA	30 V	5833
32-Bit (saturated drivers)	100 mA	40 V	5832
PARALLEL-INPUT LATCHED DRIVERS			
4-Bit	350 mA	50 V‡	5800
8-Bit	-25 mA	60 V	5815
8-Bit	350 mA	50 V‡	5801
SPECIAL-PURPOSE FUNCTIONS			
Unipolar Stepper Motor Translator/Driver	1.25 A	50 V‡	5804
Addressable 28-Line Decoder/Driver	450 mA	30 V	6817

* Current is maximum specified test condition, voltage is maximum rating. See specification for sustaining voltage limits. Negative current is defined as coming out of (sourcing) the output.

† Complete part number includes additional characters to indicate operating temperature range and package style.

‡ Internal transient-suppression diodes included for inductive-load protection.



**Allegro/Sanken
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MOTOR DRIVERS SELECTION GUIDE

Function	Output Ratings *		Part Number †
INTEGRATED CIRCUITS FOR BRUSHLESS DC MOTORS			
3-Phase Controller/Drivers	±2.0 A	45 V	2936 and 2936-120
Hall-Effect Latched Sensors	10 mA	24 V	3175 and 3177
2-Phase Hall-Effect Sensor/Controller	20 mA	25 V	3235
Hall-Effect Complementary-Output Sensor	20 mA	25 V	3275
2-Phase Hall-Effect Sensor/Driver	900 mA	14 V	3625
2-Phase Hall-Effect Sensor/Driver	400 mA	26 V	3626
Hall-Effect Complementary-Output Sensor/Driver	300 mA	60 V	5275
3-Phase Back-EMF Controller/Driver	±900 mA	14 V	8902-A
3-Phase Controller/DMOS Driver	±4.0 A	14 V	8925
3-Phase Back-EMF Controller/Driver	±1.0 A	7 V	8984
INTEGRATED BRIDGE DRIVERS FOR DC AND BIPOLAR STEPPER MOTORS			
PWM Current-Controlled Dual Full Bridge	±750 mA	45 V	2916
PWM Current-Controlled Dual Full Bridge	±1.5 A	45 V	2917 and 2918
PWM Current-Controlled Dual Full Bridge	±750 mA	45 V	2919
PWM Current-Controlled Dual Full Bridge	±1.5 A	50 V	2927
Dual Full-Bridge Driver	±2.0 A	50 V	2998
PWM Current-Controlled Full Bridge	±2.0 A	50 V	3952
PWM Current-Controlled Full Bridge	±1.3 A	50 V	3953
PWM Current-Controlled Microstepping Full Bridge	±1.5 A	50 V	3955
PWM Current-Controlled Dual Full Bridge	±800 mA	33 V	3964
OTHER INTEGRATED CIRCUIT & PMCM MOTOR DRIVERS			
Unipolar Stepper-Motor Quad Driver	1.8 A	50 V	2544
Unipolar Stepper-Motor Translator/Driver	1.25 A	50 V	5804
Unipolar Stepper-Motor Quad Driver	1 A	46 V	7024 and 7029
Unipolar Microstepper-Motor Quad Driver	1.2 A	46 V	7042
Voice-Coil Motor Driver	±500 mA	6 V	8932-A
Voice-Coil Motor Driver	±800 mA	16 V	8958
Voice-Coil (and Spindle) Motor Driver	±350 mA	7 V	8984

* Current is maximum specified test condition, voltage is maximum rating. See specification for sustaining voltage limits or over-current protection voltage limits.

Negative current is defined as coming out of (sourcing) the output.

† Complete part number includes additional characters to indicate operating temperature range and package style.

Allegro/Sanken ICs/PMCMs Product Selection Guides

HALL-EFFECT SENSORS SELECTION GUIDE

Partial Part Number	Avail. Oper. Temp.	Operate Limits Over Temp.			Function†	Notes
		B _{OP} max	B _{RP} min	B _{hys} min		
3046	E/L	+200	-200	15	Gear-Tooth Sensor	
3054	K/S	+300	+5	5.0	Unipolar Multiplex	1
3056	E/L	+225	-225	15	Gear-Tooth Sensor	
3058	E/L	+300	-300	150	Gear-Tooth Sensor	
3059	K/S	+100	-100	20	AC Gear-Tooth Sensor	
3060	K/S	+35	-35	10	AC Gear-Tooth Sensor	
3121	E/L	+500	+80	60	Unipolar Switch	
3122	E/L	+430	+120	70	Unipolar Switch	
3123	E/L	+470	+160	70	Unipolar Switch	
3132	K/L/S	+95	-95	30	Bipolar Switch	
3133	K/L/S	+75	-75	30	Bipolar Switch	
3134	E/L	+50	-40	10	Bipolar Switch	
3141	E/L	+175	+10	20	Unipolar Switch	
3142	E/L	+245	+60	30	Unipolar Switch	
3143	E/L	+355	+150	30	Unipolar Switch	
3144	E/L	+450	+25	20	Unipolar Switch	
3175	S	+180	-180	80	Bipolar Latch	
3177	S	+150	-150	50	Bipolar Latch	
3185	E/L	+300	-300	280	Bipolar Latch	
3186	E/L	+350	-350	100	Bipolar Latch	
3187	E/L	+175	-175	100	Bipolar Latch	
3188	E/L	+200	-200	160	Bipolar Latch	
3189	E/L	+250	-250	100	Bipolar Latch	
3195	E/L	+200	-200	110	Bipolar Latch	2, 3
3197	L	+200	-200	110	Bipolar Latch	3
3235	S	+200	+15	15	Unipolar Switch	4
		-200	-15	15	Unipolar Switch	
3275	S	+250	-250	100	Bipolar Latch	5
3421	E/L	+300	-300	240	Direction Detection	
3422	E/L	+85	-85	10	Direction Detection	
3503	S	Typ. 1.3 mV/G	–	–	Linear Sensor	
3507	E/L	Typ. 2.5 mV/G	–	–	Linear Sensor	
3508	S	Typ. 2.5 mV/G	–	–	Linear Sensor	
3515	E/L	Typ. 5.0 mV/G	–	–	Linear Sensor	
3516	E/L	Typ. 2.5 mV/G	–	–	Linear Sensor	
3517	L/S	Typ. 5.0 mV/G	–	–	Linear Sensor	
3518	L/S	Typ. 2.5 mV/G	–	–	Linear Sensor	
3625	S	+150	-150	200*	900 mA Bipolar Latch	3, 5, 6
3626	S	+150	-150	200*	400 mA Bipolar Latch	3, 5, 6
5140	E	+240	+25	20	300 mA Unipolar Switch	3, 6
5275	S	+250	-250	100	300 mA Bipolar Latch	5, 6

Operating Temperature Ranges:

C = 0°C to +70°C, S = -20°C to +85°C, E = -40°C to +85°C, K = -40°C to +125°C, L = -40°C to +150°C

Notes 1. Multiplexed two-wire sensor; after proper address, power/signal bus current indicates magnetic field condition.

2. Active pull down.

3. Protected.

4. Output 1 switches on south pole, output 2 switches on north pole for 2-phase, bifilar-wound, unipolar-driven brushless dc motor control.

5. Complementary outputs for 2-phase bifilar-wound, unipolar-driven brushless dc motor control.

6. Power driver output.

* Typical.

† Latches will not switch on removal of magnetic field; bipolar switches may switch on removal of field but require field reversal for reliable operation over operating temperature range.



**Allegro/Sanken
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Product Selection Guides**

***ADAPTIVE THRESHOLD SENSORS
SELECTION GUIDE***

Part Number	Application
ATS610LSA	Large-tooth, gear-position sensing – crank angle, cam angle
ATS610LSC	Large-tooth, gear-position sensing with internal voltage regulator – crank angle, cam angle
ATS611LSB	Fine-pitch, large air gap, gear speed sensing – transmission speed, ABS
ATS612LSB	Large/small-tooth gear-position sensing – crank angle, transmission speed, cam angle
ATS630LSA	TPOS large-tooth, gear-position sensing (HIGH digital output state over a tooth), cam angle
ATS630LSC	TPOS large-tooth, gear-position sensing (HIGH digital output state over a tooth), with internal voltage regulator – cam angle
ATS631LSA	TPOS large-tooth, gear-position sensing (LOW digital output state over a tooth), cam angle
ATS631LSC	TPOS large-tooth, gear-position sensing (LOW digital output state over a tooth) with internal voltage regulator – cam angle
ATS632LSA	Large-tooth, gear-position sensing (LOW digital output state over a tooth), cam angle
ATS632LSC	Large-tooth, gear-position sensing (LOW digital output state over a tooth), with internal voltage regulator – cam angle

***SAFETY & SECURITY ICs
SELECTION GUIDE***

Part Number	Function
A3054KU/SU	Multiplexed Two-Wire Hall-Effect Sensor
A5347CA	Ionization-Type Smoke Detector with Interconnect and Timer
A5348CA	Ionization-Type Smoke Detector with Interconnect, Timer, and Reverse-Battery Protection
A5349CA	Ionization-Type Smoke Detector with Interconnect and Timer for AC Line Operation
A5354CA	Ionization-Type Smoke Detector with Interconnect and Reverse-Battery Protection
A5355CA	Ionization-Type Smoke Detector with Interconnect and Reverse-Battery Protection
A5358CA	Photoelectric-Type Smoke Detector with Interconnect and Timer
A5364CA	Ionization-Type Smoke Detector with Interconnect, Reverse-Battery Protection, and Temporal Horn Pattern
A5368CA	Ionization-Type Smoke Detector with Interconnect, Timer, Reverse-Battery Protection, and Temporal Horn Pattern

Allegro/Sanken ICs/PMCMs Product Selection Guides

POWER CONVERSION/POWER MANAGEMENT SELECTION GUIDES

SWITCHING REGULATOR PMCMs

Part Number*	Application	AC In	Max P _O	Power Switch		
5703	Quasi-Resonant Flyback Converter	110/120 V	140 W	500 V	6 A	Bipolar
5707	Quasi-Resonant Flyback Converter	85-265 V 220/240V	90 W 140 W	850 V	6 A	Bipolar
5708	Quasi-Resonant Flyback Converter	85-265 V 220/240 V	120 W 180 W	850 V	7.5 A	Bipolar
6511	Quasi-Resonant Flyback Converter	110/120 V	180 W	450 V	11 A	MOSFET
6703	Quasi-Resonant Flyback Converter	110/120V	140 W	500 V	6 A	Bipolar
6704	Quasi-Resonant Flyback Converter	110/120 V	100 W	500 V	5 A	Bipolar
6707	Quasi-Resonant Flyback converter	85-265 V 220/240 V	90 W 140 W	850 V	6 A	Bipolar
6708	Quasi-Resonant Flyback Converter	85-265 V 220/240 V	120 W 180 W	850 V	7.5 A	Bipolar
6709	Quasi-Resonant Flyback Converter	85-265 V 220/240 V	160 W 220 W	850 W	10 A	Bipolar

* Complete part number includes additional characters to indicate operating temperature range and package style.

LINEAR REGULATOR ICs

Part Number*	V _O	Max DC In	Max Dropout	Max I _O	Package
8184	3.0 V	10 V	300 mV @ 125 mA	250 mA	SOT-89
8187	3.3 V	10 V	300 mV @ 125 mA	250 mA	SOT-89
8188	2.5–3.3 V	10 V	300 mV @ 125 mA	250 mA	SOT-89
8188	2.5–3.3 V	10 V	300 mV @ 125 mA	250 mA	SOIC

* Complete part number includes additional characters to indicate operating temperature range and package style.

Also — 83145 and 84145 Latched, Universal Input-Voltage Switches.



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***AUTOMOTIVE POWER
& SIGNAL-PROCESSING ICs***

EXTENDED TEMPERATURE DEVICES SUITABLE FOR AUTOMOTIVE APPLICATIONS

Part Number *	Function
2064, 2065, 2068, & 2069	1.5 A Darlington Switches
2540	Quad Power Driver
2543	Protected Quad Power Driver
2544	Protected Quad Power Driver
2547, 2549, & 2559	Protected Quad Power Drivers
2595, 2596, & 2597	8-Channel Saturated Sink Drivers
2916, 2917, & 2918	Dual Full-Bridge PWM Motor Drivers
2936	3-Phase Brushless DC Motor Controller/Driver
2982, 2984, & 2987	8-Channel Source Drivers
2998	Dual H-Bridge Motor Driver
3046, 3056, & 3058	Hall-Effect Gear-Tooth Sensors - Zero Speed
3054	Multiplexed Two-Wire Hall-Effect Sensor
3059 & 3060	Hall-Effect Gear-Tooth Sensors - AC Coupled
3121, 3122, & 3123	Hall-Effect Switches
3132 & 3133	Ultra-Sensitive Bipolar Hall-Effect Switches
3134	Bipolar Hall-Effect Switch
3141, 3142, 3143, & 3144	Sensitive Hall-Effect Switches
3185 thru 3189	Hall-Effect Latches
3195	Protected Hall-Effect Latch with Active Pull-Down
3197	Protected, Open-Collector Hall-Effect Latch
3421 and 3422	Hall-Effect, Direction-Detection Sensors
3507 and 3508	Ratiometric, Linear Hall-Effect Sensors
3845	AM Noise Blanker
3952 & 3953	Full-Bridge PWM Motor Driver
3962	Dual Full-Bridge PWM Motor Driver
5140	Protected POWERHALL Sensor - Lamp/Solenoid Driver
5800 & 5801	BiMOS II Latched Drivers
5810-F	BiMOS II 10-Bit Serial-Input, Latched Source Driver
5811	BiMOS II 12-Bit Serial-Input, Latched Source Driver
5812-F	BiMOS II 20-Bit Serial-Input, Latched Source Driver
5818-F	BiMOS II 32-Bit Serial-Input, Latched Source Driver
5821	BiMOS II 8-Bit Serial-Input, Latched Driver
5832	BiMOS II 32-Bit Serial-Input, Latched Driver
5841 & 5842	BiMOS II 8-Bit Serial-Input, Latched Drivers
6118	Fluorescent Display Driver

*Complete part number includes additional characters to indicate operating temperature range and package style.

Allegro/Sanken ICs/PMCMs Product Selection Guides

DEVICES FOR MASS-STORAGE APPLICATIONS

Part Number*	Description
8902-A	5 V and 12 V 3-Phase Brushless DC Motor Controller/Driver with Back-EMF Sensing
8920	Dual Schottky Diode
8925	3-Phase Motor Controller/Driver with Linear Current Control and Power DMOS Outputs
8932-A	6 V, 600 mA Voice Coil Motor Driver
8958	16 V, 800 mA Voice Coil Motor Driver
8984	Spindle & Voice-Coil Actuation Manager/Driver

* Complete part number includes additional characters to indicate operating temperature range and package style.

DEVICES FOR PRINTER APPLICATIONS

Part Number*	Description
2916	Dual 45 V, ± 750 mA Full-Bridge PWM Stepper Motor Driver
2917	Dual 45 V, ± 1.5 A Full-Bridge PWM Stepper Motor Driver
2918	Dual 45 V, ± 1.5 A Full-Bridge PWM Stepper Motor Driver
2919	Dual 45 V, ± 750 mA Full-Bridge PWM Stepper Motor Driver
2961	45 V, 3.4 A Solenoid Printhead Driver
2962	Dual 45 V, 3 A Solenoid Printhead Driver
3952	50 V, ± 2 A Full-Bridge PWM Stepper Motor Driver
3953	50 V, ± 1.3 A Full-Bridge PWM Motor Driver
3955	50 V, ± 1.5 A Full-Bridge PWM Microstepping Motor Driver
5829	Serial-In 50 V, 1.6 A 9-Wire Solenoid Printhead Driver
6817	Addressable 30 V, 450 mA 28-Line Ink-Jet Printer Decoder/Driver

* Complete part number includes additional characters to indicate operating temperature range and package style.

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