

STMICROELECTRONICS Analog Integrated Circuits



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STMICROELECTRONICS AUTOMOTIVE H-BRIDGE DRIVERS

The VNH2SP30-E is a full bridge motor driver intended for a wide range of automotive applications. The device incorporates a dual monolithic high side driver and two low side switches. The high side driver switch is designed using STMicroelectronics' well known and proven proprietary VIPower MO technology which permits efficient integration on the same die of a true Power MOSFET with an intelligent signal/protection circuitry.

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package	Output Current	Logic Level	PWM	Operating Supply (V)	Pin Count	Operating Temp. (°C)	Price Each			
									1	10	100	250
511-VNH2SP30-E	VNH2SP30-E	MultiPower SO-30	30A	5V	20	7.5	40	-40~150	11.88	9.93	8.41	7.09
511-VNH3SP30TR-E	VNH3SP30TR-E	MultiPower SO-30	30A	5V	10.0	5.5	30	-40~150	11.13	7.81	6.61	5.58

STMICROELECTRONICS SWITCH MODE POWER SUPPLIES

ST's revolutionary VIPer series of off-line switch mode power supply regulators combines an optimized, high voltage, avalanche rugged Vertical Power MOSFET with state-of-the-art PWM circuitry. The result is truly innovative AC to DC conversion that is simpler, quicker and - with component count halved - less expensive. Printers, Scanners, Digital Satellite Receivers, Digital Video Disks, Auxiliary Power Supplies, Battery Chargers, VCRs, TVs, White Goods and a host of other products can now be brought to market in shorter times and at lower cost. In addition to benefits such as adjustable switching frequencies up to 200 kHz, optimized current mode control and comprehensive built-in protection circuits, the VIPer family represents the easiest solution to comply with the "Blue Angel" and "Energy Star" Eco Norms, with extremely low total power consumption from the mains when the system is in stand-by mode.

- 100W, 50W, 20W, 10W output power
- 400V, 620V 700V and 730V breakdown voltages
- 1.1 to 30 ohm power output RDS(on)
- Avalanche rugged

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package	Voltage (V)	Source Voltage (V)	On State Resist. Max. (Ω)	Current (A)	Rise/Fall Time(ns)	Storage Temp.	Price Each			
									1	10	100	250
511-VIPER100A-22-E	VIPER100A-22-E	Pentawatt	0 to 15	700	2.8	1.0	50/100	-65 to 150	4.79	3.87	3.11	2.69
511-VIPER100A-E	VIPER100A-E	Pentawatt	0 to 15	700	2.8	3	50/100	-65 to 150	4.79	3.87	3.11	2.69
511-VIPER100-E	VIPER100-E	Pentawatt	0 to 15	620	2.5	3	50/100	-65 to 150	4.64	3.75	3.01	2.60
511-VIPER16HN	VIPER16HN	PDIP 7	-0.3 to +	800	24	2.5	50/100	-55 to 150	1.02	.80	.755	.60
511-VIPER16LN	VIPER16LN	PDIP 7	-0.3 to +	800	24	2.5	50/100	-55 to 150	1.02	.80	.755	.60
511-VIPER22ADIP-E	VIPER22ADIP-E	Pentawatt	0 to 15	620	2.5	3	50/100	-40 to 150	1.74	1.30	1.11	1.02
511-VIPER27HN	VIPER27HN	PDIP 7	-0.3 to +	800	3.0	1.0	50/100	-40 to 150	1.80	1.55	1.20	1.05
511-VIPER27LN	VIPER27LN	PDIP 7	-0.3 to +	800	3.0	1.0	50/100	-40 to 150	1.80	1.55	1.20	1.05
511-VIPER27LN	VIPER27LN	PDIP 7	-0.3 to +	800	3.0	1.0	50/100	-40 to 150	1.80	1.55	1.20	1.05
511-VIPER50A-E	VIPER50A-E	Pentawatt	9 to 15	700	5.7	1.5	50/100	-40 to 150	4.70	3.44	2.77	2.39
511-VIPER28HN	VIPER28HN	PDIP 7	-0.3 to +	800	2.5	3	280/480	-40 to 150	1.49	.92	.845	.769
511-VIPER28LN	VIPER28LN	PDIP 7	-0.3 to +	800	2.5	3	280/480	-40 to 150	1.49	.92	.845	.769

STMICROELECTRONICS HIGH SIDE DRIVERS

Integrated High Side Drivers offer numerous advantages over the electromechanical relays used in cars today. Diagnostic information output from these devices helps the on-board microprocessor to quickly identify and isolate faults saving repair time and improving safety. ST is promoting VIPower solid-state relays belonging to the latest MO-3 technology, which allow smaller devices with less heat dissipation.

- Single, Double, Triple or Quadruple Channel
- 4A to 60A load current
- 40V to 60V breakdown voltage

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package	Operating Supply Voltage (V)	DC Supply Voltage (V)	Static Drain-Source On State Resistance Max. (Ω)	DC Output Current (A)	Power Dissipation (W)	Turn-On/ Turn-Off Delay Time (μs)	Price Each					
									1	10	100	250		
Surface Mount														
511-VN750PT-E	VN750PT-E	PPAK	5.5 to 36	41	0.06	6	60	40/30	1.55	1.51	1.46	1.41		
511-VN920SP-E	VN920SP-E	PowerSO-10	5.5 to 36	41	0.015	35	125	50/50	2.75	2.71	2.36	2.04		
511-VN330SP	VN330SP	PowerSO-10	10 to 36	60	4 x 0.20	1	Int. Limit.	40/30	8.45	7.06	5.98	5.05		
Thru-Hole														
511-VN02H(011Y)	VN02H(011Y)	Pentawatt H	5 to 36	60	0.4	6	28	10/15	1.97	1.82	1.77	1.70		
511-VN05N	VN05N	Pentawatt V	7 to 26	60	0.18	130	56	15/20	3.02	2.45	2.00	1.73		

STMICROELECTRONICS SURFACE MOUNT MICROPROCESSOR SUPERVISORS

These ST microprocessor supervisors offer a mix of reset timing for Power-On Reset, Watchdog, Manual Reset Input, and PFI-PFO (Early Power-fail Warning) in 8-pin packages.

- Push-pull reset outputs
- Manual reset input
- Low supply current - 40uA (typ)
- 150ms reset pulse width (min)
- Power-fail comparator (PFI/PFO)
- Lead-free package

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Reset Threshold (V)	Device Options										VCC Supply Voltage (V)	Operating Temp. Range (°C)	Price Each		
				Watch-dog Input	Watch Output	Active Low RESET	Active High RESET	Manual RESET Input	Power Fail Comp	Chip Enable Gating	Batt. Fresh Seal	1	10			100		
511-STM690TM6E	STM690TM6E	SO-8	3.15	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	2.0	-40 to +85	1.87	1.68	.98	
511-STM706TM6F	STM706TM6F	SO-8	4.38	No	No	Yes	Yes	Yes	Yes	Yes	No	No	1.0 to 5.5	-40 to +85	1.73	1.41	1.26	
511-STM706SM6E	STM706SM6E	SO-8	4.38	No	No	Yes	Yes	Yes	Yes	Yes	No	No	1.0 to 5.5	-40 to +85	1.07	.96	.84	
511-STM708SM6F	STM708SM6F	SO-8	4.38	No	No	Yes	Yes	Yes	Yes	Yes	No	No	1.0 to 5.5	-40 to +85	1.73	1.41	1.26	
511-STM813LM6F	STM813LM6F	SO-8	4.63	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	1.0 to 5.5	-40 to +85	1.73	1.41	1.26	
511-STM811MW16F	STM811MW16F	SOT23	4.5	No	No	Yes	Yes	Yes	No	No	No	No	-0.3 to +0.3	-40 to +85	.71	.57	.505	
511-STM1001MWX6F	STM1001MWX6F	SOT23	4.5	No	No	Yes	No	Yes	No	No	No	No	1.0 to 5.5	-40 to +85	.68	.56	.496	
511-STM1001TWX6F	STM1001TWX6F	SOT23	3.15	No	No	Yes	No	No	No	No	No	No	1.0 to 5.5	-40 to +85	.53	.345	.303	

STMICROELECTRONICS DUAL-LOW VOLTAGE POWER AMPLIFIERS

These dual low-voltage power amplifiers are intended for use as a dual audio power amplifier in portable cassette players, radios and CD players. They can also be used in a solid-state MP3 player (other components required would be MPEG decoder, flash memory, low-cost microcontroller and DC-DC-converter).

- Supply voltage down to 1.8V
- Low quiescent current
- Low crossover distortion
- Bridge or stereo configuration

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Supply Voltage (Min/Max) (V)	Peak Output Current (A)	Total Power Dissipation (W)	Quiescent Drain Curr. (Max)(mA)	Distortion (Typ) (%)	Storage Temp. (°C)	Price Each				
									1	10	100		
Surface Mount													
511-TDA2822D	TDA2822D	SO-8	1.8/15	1	0.5	15	0.2	-40° to +150°	1.12	.98	.828		
Thru-Hole													
511-TDA2822M	TDA2822M	DIP-8	1.8/15	1	1	9	0.2	-40° to +150°	1.04	.93	.81		
511-TDA7294V	TDA7294V	Multiwatt 15V	±40	10	50	20	.1	-0° to +70°	3.78	3.56	3.20		

DIP-8

MultiPowerSO-30

PDIP-7

Pentawatt

Pentawatt H

Pentawatt V

PowerSO-10™

PPAK

SO-8

SOT23-3 (WX)

SOT143-4 (W1)

Multiwatt 15

