

# STMICROELECTRONICS Analog ICs



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Analog ICs

## AUTOMOTIVE H-BRIDGE DRIVERS

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-VNH5180ATR-E	VNH5180ATR-E	PowerSSO-36	8A	2.1V	20.0	5.5	36	-40 to +150	3.50	3.18	2.64	2.33
◆ 511-VNH5019A-E	VNH5019A-E	MultiPowerSO-30	30A	2.1V	20.0	5.5	30	-40 to +150	8.75	7.95	6.60	5.83
◆ 511-VNH5050ATR-E	VNH5050ATR-E	PowerSSO-36	30A	2.1V	20.0	5.5	36	-40 to +150	4.88	4.43	3.67	3.25
◆ 511-VNH3SP30TR-E	VNH3SP30TR-E	MultiPower SO-30	30A	5V	10.0	5.5	30	-40 to +150	11.21	9.68	8.21	7.40
◆ 511-VNH7013XPTR-E	VNH7013XPTR-E	PowerSSO-36	40A	18V	---	72	36	-40 to +150	5.37	5.02	4.66	4.30

## SWITCH MODE POWER SUPPLIES

MOUSER STOCK NO.	STM Part No.	Package	Voltage (V)	Source Voltage (V)	RDS (on) (Ω)	Operating Frequency	Input Current (IDD)	Storage Temp.	Price Each			
									1	10	100	250
◆ 511-VIPER06HN	VIPER06HN	DIP-7	11.5 to 23.5	800	32	115 kHz	20mA	-55 to 150	.98	.88	.81	.74
◆ 511-VIPER06HSTR	VIPER06HSTR	SSO-10	11.5 to 23.5	800	32	115 kHz	20mA	-55 to 150	1.12	1.00	.92	.84
◆ 511-VIPER06LN	VIPER06LN	DIP-7	11.5 to 23.5	800	32	60 kHz	20mA	-55 to 150	.98	.88	.81	.74
◆ 511-VIPER06LSTR	VIPER06LSTR	SSO-10	11.5 to 23.5	800	32	60 kHz	20mA	-55 to 150	1.12	1.00	.92	.84
◆ 511-VIPER06XN	VIPER06XN	DIP-7	11.5 to 23.5	800	32	30 kHz	20mA	-55 to 150	1.12	1.00	.92	.84
◆ 511-VIPER06XSTR	VIPER06XSTR	SSO-10	11.5 to 23.5	800	32	30 kHz	20mA	-55 to 150	1.12	1.00	.92	.84
◆ 511-VIPER16HD	VIPER16HD	SO-16	11.5 to 23.5	800	24	115 kHz	20mA	-55 to 150	.88	.79	.70	.66
◆ 511-VIPER16LD	VIPER16LD	SO-16	11.5 to 23.5	800	24	60 kHz	20mA	-55 to 150	.88	.79	.70	.66
◆ 511-VIPER26LD	VIPER26LD	SO-16	11.5 to 23.5	800	7	60 kHz	20mA	-55 to 150	1.20	1.11	.94	.86
◆ 511-VIPER26LN	VIPER26LN	PDIP-7	11.5 to 23.5	800	7	60 kHz	20mA	-55 to 150	1.15	1.04	.90	.83
◆ 511-VIPER27HN	VIPER27HN	PDIP-7	8.5 to 23.5	800	7	115 kHz	25mA	-55 to 150	1.15	1.04	.90	.83
◆ 511-VIPER37HE	VIPER37HE	SDIP-10	8.5 to 23.5	800	9	115kHz	25mA	-55 to 150	1.87	1.51	1.36	1.21
◆ 511-VIPER37LE	VIPER37LE	SDIP-10	8.5 to 23.6	800	9	60kHz	25mA	-55 to 150	1.87	1.51	1.36	1.21
◆ 511-VIPER50A-E	VIPER50A-E	Pentawatt	9 to 15	700	5.7	200 kHz	16mA	-55 to 150	3.29	3.06	2.61	2.43
◆ 511-VIPER12AS-E	VIPER12AS-E	SO-8	9 to 38	730	30	60 kHz	4.5mA	-55 to 150	.85	.80	.72	.68

Evaluation Board	Description	Price Each
◆ 511-eVLVIP27-7WLED	EVLVIP27-7WLED Evaluation board that is a 3.5W to 7W power factor offline LED driver based on VIPer devices	72.19

## HIGH VOLTAGE IGNITION COIL DRIVER

MOUSER STOCK NO.	STM Part No.	Package	V <sub>CC</sub> Max. (V)	I <sub>CC</sub> (mA)	V <sub>cl</sub> (V)	I <sub>cl</sub> (A)	V <sub>IN</sub> (V)	Operating Temp. Range (°C)	Price Each			
									1	10	100	250
◆ 511-VB525SP-E	VB525SP-E	PowerSO-10	5.5	150	380	10	-0.3 to 0.3	-40 to 150	6.49	5.79	4.75	4.28

## INTERFACE DEVICE FOR VIPOWER™

MOUSER STOCK NO.	STM Part No.	Package	Description	Supply Voltage (V)	Input Voltage (V)	Input Current (mA)	Output Current (mA)	Price Each			
								1	10	100	250
◆ 511-L99PD08	L99PD08	LQFP-32	8-Ch SPI control interface device for analog and digital high side drivers	3.3/5.0	-14 to 6.5	10	1	4.01	3.61	2.94	2.67

## HIGH SIDE DRIVERS

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
◆ 511-VND5050AJTR-E	VND5050AJTR-E	Power SSO-12	4.5 to 36	41	0.5	Int. Limit.	---	25/35	2.33	2.18	2.14	2.06
◆ 511-VND5E050AJTR-E	VND5E050AJTR-E	Power SSO-12	4.5 to 28	41	0.5	Int. Limit.	---	20/45	3.40	3.05	2.47	2.23
◆ 511-VND5E004A30-E	VND5E004A30-E	SO-30	4.5 to 28	41	0.4	Int. Limit.	---	25/35	8.48	7.68	6.40	5.50
◆ 511-VND5E006ASPTR-E	VND5E006ASPTR-E	SO-16	4.5 to 28	28	0.5	Int. Limit.	---	35/20	7.63	6.90	5.80	5.00
◆ 511-VND5E025BKTR-E	VND5E025BKTR-E	PowerSSO-24	4.5 to 28	41	0.25	Int. Limit.	---	20/30	3.94	3.57	3.00	2.58
◆ 511-VND5E050MJ-E	VND5E050MJ-E	PowerSSO-12	4.5 to 28	41	0.5	Int. Limit.	---	20/45	3.40	3.05	2.47	2.23
◆ 511-VN5E025AJTR-E	VN5E025AJTR-E	Power SSO-12	4.5 to 28	41	0.25	Int. Limit.	---	15/40	3.06	2.60	2.11	1.89
◆ 511-VN5E160ASTR-E	VN5E160ASTR-E	SO-8	4.5 to 28	41	0.16	Int. Limit.	---	10/10	1.88	1.60	1.32	1.18
◆ 511-VN5E016AHTR-E	VN5E016AHTR-E	H-Pak	4.5 to 28	41	0.16	Int. Limit.	---	15/45	3.46	3.12	2.42	2.17
◆ 511-VN5160STR-E	VN5160STR-E	SO-8	4.5 to 36	41	0.16	Int. Limit.	---	10/15	1.37	1.28	1.22	1.17
◆ 511-VN5772AKTR-E	VN5772AKTR-E	SO-28	4.5 to 36	41	0.5	Int. Limit.	---	25/20	5.25	4.83	3.91	3.53
◆ 511-VN5050AJTR-E	VN5050AJTR-E	Power SSO-12	4.5 to 36	41	0.5	Int. Limit.	---	20/40	2.55	2.17	1.76	1.57
◆ 511-VN5050J-E	VN5050J-E	PowerSSO-12	4.5 to 36	41	0.5	Int. Limit.	---	20/35	2.07	1.96	1.59	1.41
◆ 511-VN5016AJTR-E	VN5016AJTR-E	Power SSO-12	4.5 to 36	41	0.16	Int. Limit.	---	35/50	3.35	3.07	2.48	2.27
◆ 511-VN750	VN750	Pentawatt V	5.5 to 36	41	0.06	6	60	40/30	2.75	2.46	1.93	1.75
◆ 511-VN750PT-E	VN750PT-E	PPAK	5.5 to 36	41	0.06	6	60	40/30	2.32	2.09	1.68	1.46
◆ 511-VN751PT13TR	VN751PT13TR	PPAK	5.5 to 36	45	0.06	Int. Limit.	Int. Limit.	12/35	2.60	2.32	1.91	1.65
◆ 511-VN751STR	VN751STR	SO-8	5.5 to 36	45	0.06	Int. Limit.	Int. Limit.	12/35	2.66	2.37	1.95	1.68
◆ 511-VN920SP-E	VN920SP-E	PowerSO-10	5.5 to 36	41	0.015	35	125	50/50	2.99	2.95	2.57	2.22
◆ 511-VND5T016ASPTR-E	VND5T016ASPTR-E	PowerSO-16	8 to 36	41	0.16	Int. Limit.	---	50/45	6.30	5.88	5.46	5.04
◆ 511-VND5T035AKTR-E	VND5T035AKTR-E	PowerSSO-24	8 to 36	58	0.35	Int. Limit.	---	46/54	6.15	5.74	5.33	4.92
◆ 511-VND5T050AKTR-E	VND5T050AKTR-E	PowerSSO-24	8 to 36	58	0.5	Int. Limit.	---	30/40	5.55	5.18	4.81	4.44
◆ 511-VND5T100AJ-E	VND5T100AJ-E	PowerSSO-12	8 to 36	58	0.1	Int. Limit.	---	27/38	3.52	3.19	2.87	2.31
◆ 511-VN808CM-E	VN808CM-E	PowerSO-36	10.5 to 45	45	0.16	Int. Limit.	96	50/75	12.20	10.91	8.82	7.97
◆ 511-VNI4140KTR-32	VNI4140KTR-32	SSO-24	10.5 to 36	41	---	-0.25	Int. Limit.	6/12	6.83	5.49	5.00	4.52

## MICROPROCESSOR SUPERVISORS

MOUSER STOCK NO.	STM Part No.	Package Type	Reset Threshold (Typ.)(V)	Device Options								VCC Supply Voltage (V)	Operating Temp. Range (°C)	Price Each		
				Watch -dog Input	Watch -dog Output	Active Low RESET	Active High RESET	Manual RESET Input	Power Fail Comp	Chip Enable Gating	Batt. Fresh Seal			1	10	100
◆ 511-STM1001TWX6F	STM1001TWX6F	SOT-23	3.08	No	No	Yes	No	No	No	No	No	1.0 to 5.5	-40 to +85	.42	.35	.28
◆ 511-STM708TAM6F	STM708TAM6F	SO-8	3.08	No	No	Yes	Yes	Yes	Yes	No	No	1.0 to 5.5	-40 to +85	.71	.68	.57
◆ 511-STM811MW16F	STM811MW16F	SOT-23	4.38	No	No	Yes	Yes	Yes	Yes	No	No	-0.3 to +0.3	-40 to +85	.68	.58	.46

## DUAL-LOW VOLTAGE POWER AMPLIFIERS

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
◆ 511-TDA2822M	TDA2822M	DIP-8	1.8/15	1	1	9	0.2	-40 to +150	1.57	1.38	1.08
◆ 511-TDA7294V	TDA7294V	Multiwatt 15V	±40	10	50	20	0.1	-0 to +70	6.10	5.44	4.46

