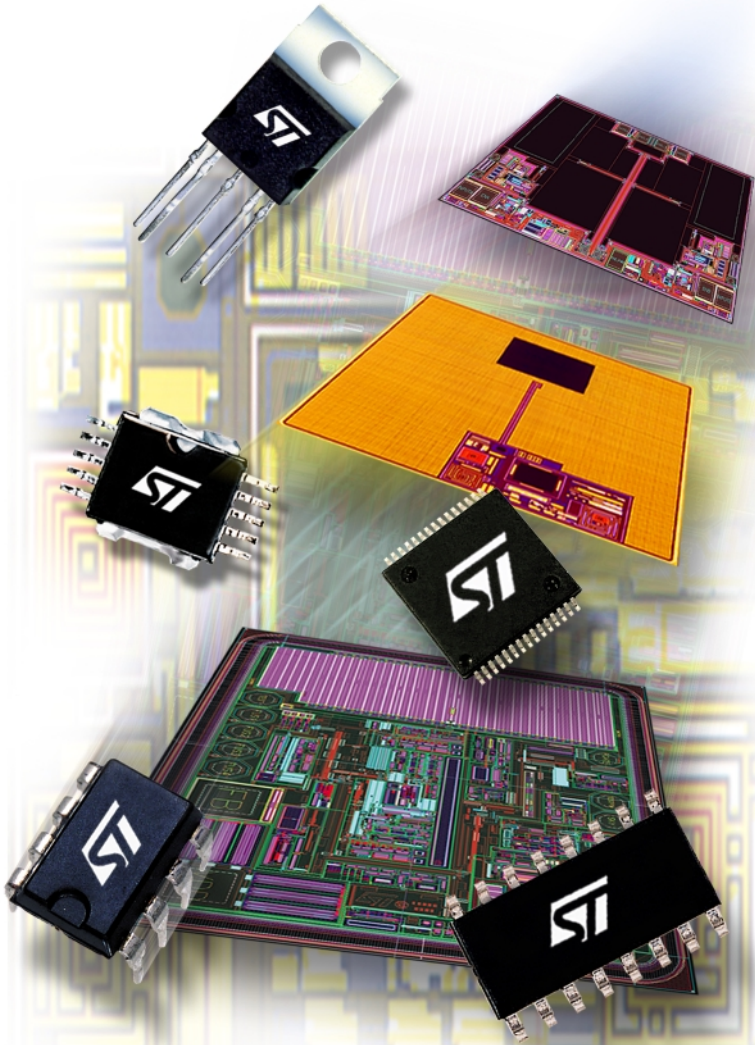


VIpower

The Smart Solution In Power



Selection Guide

STMicroelectronics
More Intelligent Solutions



High Side Drivers - Single Channel

P / N	V _{CC} (V)	V _{DSS} (V)	R _{DS(on)} (Ω)	I _{out} (A)	Tech	I _{out} [*] (A)	P _{tot} (W)	Package	Applications
VN02AN	7 to 36	60	0.350	7	M0-1	-	31	PENTAWATT	Aut, Ind, Cons.
VN02ANSP	7 to 36	60	0.350	7	M0-1	-	31	PowerSO-10	Aut, Ind, Cons.
VN02H	5 to 36	60	0.400	6	M0-1	-	28	PENTAWATT	Aut, Ind, Cons.
VN02HSP	5 to 36	60	0.400	6	M0-1	-	28	PowerSO-10	Aut, Ind, Cons.
VN02N	7 to 26	60	0.400	6	M0-1	-	29	PENTAWATT	Aut, Ind, Cons.
VN02NPT	7 to 26	60	0.400	6	M0-1	-	29	PPAK	Aut, Ind, Cons.
VN02NSP	7 to 26	60	0.400	6	M0-1	-	29	PowerSO-10	Aut, Ind, Cons.
VN03	5.5 to 26	60	0.500	4	M0-1	0.7	14	PENTAWATT	Aut, Ind, Cons.
VN03SP	5.5 to 26	60	0.500	4	M0-1	0.7	14	PowerSO-10	Aut, Ind, Cons.
VN05H	5 to 36	60	0.180	12	M0-1	-	52	PENTAWATT	Aut, Ind, Cons.
VN05HSP	5 to 36	60	0.180	12	M0-1	-	52	PowerSO-10	Aut, Ind, Cons.
VN05N	7 to 26	60	0.180	130	M0-1	-	56	PENTAWATT	Aut, Ind, Cons.
VN05NSP	7 to 26	60	0.180	13	M0-1	-	56	PowerSO-10	Aut, Ind, Cons.
VN06	5.5 to 26	60	0.180	9	M0-1	1.9	27	PENTAWATT	Aut, Ind, Cons.
VN06SP	5.5 to 26	60	0.180	9	M0-1	1.9	27	PowerSO-10	Aut, Ind, Cons.
VN16B	6 to 26	40	0.060	20	M0-2	5.6	82	PENTAWATT	Aut, Ind, Cons.
VN16BSP	6 to 26	40	0.060	20	M0-2	5.6	82	PowerSO-10	Aut, Ind, Cons.
VN21	5.5 to 26	60	0.050	23	M0-1	7	48	PENTAWATT	Aut, Ind, Cons.
VN21SP	5.5 to 26	60	0.050	23	M0-1	7	48	PowerSO-10	Aut, Ind, Cons.
VN30N	7 to 26	60	0.030	45	M0-2	-	108	PENTAWATT	Aut, Ind, Cons.
VN30NSP	7 to 26	60	0.030	45	M0-2	-	108	PowerSO-10	Aut, Ind, Cons.
VN31	5.5 to 26	60	0.030	31	M0-2	11.5	54	PENTAWATT	Aut, Ind, Cons.
VN31SP	5.5 to 26	60	0.030	31	M0-2	11.5	54	PowerSO-10	Aut, Ind, Cons.
VN460SP	5.5 to 36	45	0.020	25	M0-2	-	112	PowerSO-10	Aut, Ind, Cons.
VN540	10 to 36	45	0.050	2.8	M0-2	-	62	PENTAWATT	Ind, Aut
VN540SP	10 to 36	45	0.050	2.8	M0-2	-	-	PowerSO-10	Ind, Aut
VN610SP	5.5 to 36	41	0.010	45	M0-3	15	125	PowerSO-10	Aut, Ind, Cons.
VN750	5.5 to 36	41	0.060	6	M0-3	-	42	PENTAWATT	Aut, Ind, Cons.
VN750PT	5.5 to 36	41	0.060	6	M0-3	-	42	PPAK	Aut, Ind, Cons.
VN750S	5.5 to 36	41	0.060	6	M0-3	-	4.2	SO-8	Aut, Ind, Cons.
VN750-B5	5.5 to 36	41	0.060	6	M0-3	-	42	P ² PAK	Aut, Ind, Cons.
VN750SM	5.5 to 36	41	0.055	6	M0-3	-	4.2	SO-8	Aut, Ind, Cons.
VN820	5.5 to 36	41	0.040	9	M0-3	-	62.5	PENTAWATT	Aut, Ind, Cons.
VN820-B5	5.5 to 36	41	0.040	9	M0-3	-	62.5	P ² PAK	Aut, Ind, Cons.
VN820PT	5.5 to 36	41	0.040	9	M0-3	-	42	PPAK	Aut, Ind, Cons.
VN820SO	5.5 to 36	41	0.040	9	M0-3	-	8.3	SO-16L	Aut, Ind, Cons.
VN820SP	5.5 to 36	41	0.040	9	M0-3	-	62.5	PowerSO-10	Aut, Ind, Cons.
VN920	5.5 to 36	41	0.016	35	M0-3	-	90	PENTAWATT	Aut, Ind, Cons.
VN920-B5	5.5 to 36	41	0.016	35	M0-3	-	90	P ² PAK	Aut, Ind, Cons.
VN920SO	5.5 to 36	41	0.016	35	M0-3	-	8.3	SO-16L	Aut, Ind, Cons.
VN920SP	5.5 to 36	41	0.015	35	M0-3	-	125	PowerSO-10	Aut, Ind, Cons.
VN920DSO	5.5 to 36	41	0.018	25	M0-3	-	8.3	SO-16L	Aut, Ind, Cons.
VN920D-B5	5.5 to 36	41	0.018	25	M0-3	-	90	P ² PAK	Aut, Ind, Cons.
VN800S	5.5 to 36	41	0.135	0.7	M0-3	-	4.2	SO-8	Ind, Aut
VN800PT	5.5 to 36	41	0.135	0.7	M0-3	-	42	PPAK	Ind, Aut

High Side Drivers - Multiple Channel

P / N	V _{CC} (V)	V _{DSS} (V)	R _{DS(on)} (Ω)	I _{out} (A)	Tech	I _n ⁺ (A)	P _{tot} (W)	Package	Chan.	Applications
VND05B	6 to 26	40	2 x 0.200	9	M0-2	1.6	59	HEPTAWATT	2	Aut, Ind, Cons.
VND05BSP	6 to 26	40	2 x 0.200	9	M0-2	1.6	59	PowerSO-10	2	Aut, Ind, Cons.
VND10B	6 to 26	40	2 x 0.100	14	M0-2	3.4	75	HEPTAWATT	2	Aut, Ind, Cons.
VND10BSP	6 to 26	40	2 x 0.100	14	M0-2	3.4	75	PowerSO-10	2	Aut, Ind, Cons.
VND600	5.5 to 36	41	2 x 0.035	25	M0-3	-	8.3	SO-16L	2	Aut, Ind, Cons.
VND600SP	5.5 to 36	41	2 x 0.030	25	M0-3	-	104	PowerSO-10	2	Aut, Ind, Cons.
VND810SP	5.5 to 36	41	2 x 0.160	3.5	M0-3	-	54	PowerSO-10	2	Aut, Ind, Cons.
VND810MSP	5.5 to 36	41	2 x 0.160	0.6	M0-3	-	54	PowerSO-10	2	Aut, Ind, Cons.
VND810	5.5 to 36	41	2 x 0.160	3.5	M0-3	-	8.3	SO-16	2	Aut, Ind, Cons.
VND830SP	5.5 to 36	41	2 x 0.060	6	M0-3	-	74	PowerSO-10	2	Aut, Ind, Cons.
VND830MSP	5.5 to 36	41	2 x 0.060	6	M0-3	-	74	PowerSO-10	2	Aut, Ind, Cons.
VND830	5.5 to 36	41	2 x 0.060	6	M0-3	-	8.3	SO-16L	2	Aut, Ind, Cons.
VN450	5.5 to 36	45	2 x 0.040 + 1 x 0.300	5	M0-2	-	95	PowerSO-20	3	Aut, Ind, Cons.
VN330SP	10 to 36	60	4 x 0.200	1	M0-2	-	int. limit.	PowerSO-10	4	Ind, Aut
VN340SP	10 to 36	60	4 x 0.200	1	M0-2	-	int. limit.	PowerSO-10	4	Ind, Aut
VNQ600	5.5 to 36	41	4 x 0.030	25	M0-3	-	6.25	SO-28	4	Aut, Ind, Cons.
VNQ660SP	5.5 to 36	41	4 x 0.050	6	M0-3	-	89	PowerSO-10	4	Aut, Ind, Cons.
VNQ810	5.5 to 36	41	4 x 0.160	3.5	M0-3	-	6.25	SO-28	4	Aut, Ind, Cons.
VNQ810M	5.5 to 36	41	4 x 0.160	0.6	M0-3	-	6.25	SO-28	4	Aut, Ind, Cons.
VNQ830	5.5 to 36	41	4 x 0.065	6	M0-3	-	6.25	SO-28	4	Aut, Ind, Cons.
VNQ830M	5.5 to 36	41	4 x 0.060	6	M0-3	-	6.25	SO-28	4	Aut, Ind, Cons.
VNQ860	5.5 to 36	41	4 x 0.270	0.25	M0-3	-	int. limit.	SO-20	4	Ind, Aut
VND920	5.5 to 36	41	2x 0.016	35	M0-3	-	6.25	SO-28	2	Aut, Ind, Cons.
VN808*	10.5 to 36	41	8x 0.160	0.7	M0-3	-	int. limit.	PowerSO-36	8	Ind, Aut
VNQ05XSP16	5.5 to 36	41	4 x 0.100	5	M0-3	-	78	PowerSO-16	4	Aut, Ind, Cons.
VNQ830A*	5.5 to 36	41	4 x 0.650	6	M0-3	-	6.25	SO-28	4	Aut, Ind, Cons.

Electronic Ignition

P / N	V _{CC} (V)	V _{CL} max	I _{CL} max	Tech	Package	Applications
VBG15NB22T5SP	-	225	23	IGBT / M	PowerSO-10	Automotive
VBGC15NB22TSP	-	225	23	IGBT	PowerSO-10	Automotive
VB130SP	-0.2 to 40	450	13	M1-3	PowerSO-10	Automotive
VB125ASP	-0.2 to 40	340	11	M1-2	PowerSO-10	Automotive
VB921ZVSP	-	440	7	M1-2	PowerSO-10	Automotive
VB921ZVFI	-	440	7	M1-2	ISOWATT220	Automotive
VB025SP	-0.3 to 7	420	10	M1-2	PowerSO-10	Automotive
VB325SP*	-0.3 to 7	420	10	M1-3	PowerSO-10	Automotive
VB027SP	-0.3 to 7	400	9	M1-2	PowerSO-10	Automotive
VB027	-0.3 to 7	400	9	M1-2	PENTAWATT H.V.	Automotive
VB029SP	-0.3 to 7	420	12	M1-2	PowerSO-10	Automotive
VB927T	-	420	9	M1-2	TO-247	Automotive
VB925	-	390	11	M1-2	TO-220	Automotive

* Under development

* according to ISO definition (T=85°C, V_{battery}=13V, voltage drop 0.5V)

HV Current Generators

P / N	DV _{in/out} (V)	V _{out} (V)	I _{out} (mA)	Package	Applications
VB811A [‡]	500	0 to Vin -60	1	TO-92	Industrial, Consumer
VB811AS [‡]	500	0 to Vin -60	1	SO-8	Industrial, Consumer

HV Linear Regulators

P / N	DV _{in/out} (V)	V _{out} (V)	I _{out} (limited) (mA)	Package	Applications
VB408	400	1.25 to Vin -30	40	TO-220	Industrial, Consumer
VB408B	400	1.25 to Vin -30	40	D ² PAK	Industrial, Consumer
VB409	400	5V - 5%; 16V	120	PENTAWATT	Industrial, Consumer
VB409SP	400	5V - 5%; 16V	120	PowerSO-10	Industrial, Consumer

High Voltage Lamp Driver

P / N	BV _{CSS}	I _C	V _{C(sat)}	Package	Description	Applications
VK05CFL	520V @ 10mA	0.25Arms	1.4V @ 300mA	SO-8	CFL driver	Consumer, Industrial
VK06 [‡]	520V @ 10mA	0.5Arms	1.4V @ 700mA	SO-16 / SIP9	TL driver	Consumer, Industrial

OMNIFETs - Autoprotected Power MOSFETs

P / N	V _{CLAMP} (V)	R _{DS(on)} (Ω)	Tech	Package	Applications
VNB35NV04	40	0.010	M0-3	D ² PAK	Automotive, Industrial, Consumer
VNV35NV04	40	0.010	M0-3	PowerSO-10	Automotive, Industrial, Consumer
VNW35NV04	40	0.010	M0-3	TO-247	Automotive, Industrial, Consumer
VNP35NV04	40	0.010	M0-3	TO-220	Automotive, Industrial, Consumer
VNW100N04	42	0.012	M0-2	TO-247	Automotive, Industrial, Consumer
VNW50N04	42	0.012	M0-2	TO-247	Automotive, Industrial, Consumer
VNP49N04FI	42	0.020	M0-2	ISOWATT220	Automotive, Industrial, Consumer
VNB49N04	42	0.020	M0-2	D ² PAK	Automotive, Industrial, Consumer
VNV49N04	42	0.020	M0-2	PowerSO-10	Automotive, Industrial, Consumer
VNP49N04	42	0.020	M0-2	TO-220	Automotive, Industrial, Consumer
VNV35N07	70	0.028	M0-2	PowerSO-10	Automotive, Industrial, Consumer
VNP35N07FI	70	0.028	M0-2	ISOWATT220	Automotive, Industrial, Consumer
VNB35N07	70	0.028	M0-2	D ² PAK	Automotive, Industrial, Consumer
VNP35N07	70	0.028	M0-2	TO-220	Automotive, Industrial, Consumer
VNS14NV04	40	0.035	M0-3	SO-8	Automotive, Industrial, Consumer
VNB28N04	42	0.035	M0-2	D ² PAK	Automotive, Industrial, Consumer
VNP28N04	42	0.035	M0-2	TO-220	Automotive, Industrial, Consumer
VNP28N04FI	42	0.035	M0-2	ISOWATT220	Automotive, Industrial, Consumer
VNP14NV04	40	0.035	M0-3	TO-220	Automotive, Industrial, Consumer
VNV28N04	42	0.035	M0-2	PowerSO-10	Automotive, Industrial, Consumer
VND14NV04	40	0.035	M0-3	DPAK	Automotive, Industrial, Consumer
VND14NV04-1	40	0.035	M0-3	IPAK	Automotive, Industrial, Consumer
VNB20N07	70	0.050	M0-2	D ² PAK	Automotive, Industrial, Consumer
VNP20N07FI	70	0.050	M0-2	ISOWATT220	Automotive, Industrial, Consumer

[‡] Under development

OMNIFETs - Autoprotected Power MOSFETs

cont'd.

P / N	V _{CLAMP} (V)	R _{DS(on)} (Ω)	Tech	Package	Applications
VNV20N07	70	0.050	M0-2	PowerSO-10	Automotive, Industrial, Consumer
VNP20N07	70	0.050	M0-2	TO-220	Automotive, Industrial, Consumer
VNS7NV04	40	0.060	M0-3	SO-8	Automotive, Industrial, Consumer
VNN7NV04	40	0.060	M0-3	SOT-223	Automotive, Industrial, Consumer
VND7NV04	40	0.060	M0-3	DPAK	Automotive, Industrial, Consumer
VND7NV04-1	40	0.060	M0-3	IPAK	Automotive, Industrial, Consumer
VNV14N04	42	0.070	M0-2	PowerSO-10	Automotive, Industrial, Consumer
VNB14N04	42	0.070	M0-2	D ² PAK	Automotive, Industrial, Consumer
VNP14N04FI	42	0.070	M0-2	ISOWATT220	Automotive, Industrial, Consumer
VNP14N04	42	0.070	M0-2	TO-220	Automotive, Industrial, Consumer
VNK14N04FM	42	0.070	M0-2	SOT-82FM	Automotive, Industrial, Consumer
VNV10N07	70	0.100	M0-2	PowerSO-10	Automotive, Industrial, Consumer
VNK10N07FM	70	0.100	M0-2	SOT-82FM	Automotive, Industrial, Consumer
VNP10N07FI	70	0.100	M0-2	ISOWATT220	Automotive, Industrial, Consumer
VNP10N07	70	0.100	M0-2	TO-220	Automotive, Industrial, Consumer
VNB10N07	70	0.100	M0-2	D ² PAK	Automotive, Industrial, Consumer
VNS3NV04	40	0.120	M0-3	SO-8	Automotive, Industrial, Consumer
VNN3NV04	40	0.120	M0-3	SOT-223	Automotive, Industrial, Consumer
VND3NV04	40	0.120	M0-3	DPAK	Automotive, Industrial, Consumer
VND3NV04-1	40	0.120	M0-3	IPAK	Automotive, Industrial, Consumer
VNK7N04FM	42	0.140	M0-2	SOT-82FM	Automotive, Industrial, Consumer
VND7N04	42	0.140	M0-2	DPAK	Automotive, Industrial, Consumer
VND7N04-1	42	0.140	M0-2	IPAK	Automotive, Industrial, Consumer
VNP7N04FI	42	0.140	M0-2	ISOWATT220	Automotive, Industrial, Consumer
VNP7N04	42	0.140	M0-2	TO-220	Automotive, Industrial, Consumer
VNP5N07	70	0.200	M0-2	TO-220	Automotive, Industrial, Consumer
VND5N07-1	70	0.200	M0-2	IPAK	Automotive, Industrial, Consumer
VND5N07	70	0.200	M0-2	DPAK	Automotive, Industrial, Consumer
VNK5N07FM	70	0.200	M0-2	SOT-82FM	Automotive, Industrial, Consumer
VNP5N07FI	70	0.200	M0-2	ISOWATT220	Automotive, Industrial, Consumer
VNN1NV04	40	0.250	M0-3	SOT-223	Automotive, Industrial, Consumer
VND1NV04	40	0.250	M0-3	DPAK	Automotive, Industrial, Consumer
VNS1NV04	40	0.250	M0-3	SO-8	Automotive, Industrial, Consumer
VNP10N06FI	60	0.300	M0-2	ISOWATT220	Automotive, Industrial, Consumer
VNK10N06FM	60	0.300	M0-2	SOT-82FM	Automotive, Industrial, Consumer
VND10N06-1	60	0.300	M0-2	IPAK	Automotive, Industrial, Consumer
VND10N06	60	0.300	M0-2	DPAK	Automotive, Industrial, Consumer
VNP10N06	60	0.300	M0-2	TO-220	Automotive, Industrial, Consumer
VNS3NV04D	40	2 x 120	M0-3	SO-8	Automotive, Industrial, Consumer
VNS1NV04D	40	2 x 250	M0-3	SO-8	Automotive, Industrial, Consumer

Dedicated Devices

P / N	V _{CC} (V)	V _{DSS} (V)	R _{DS(on)} (Ω)	I _{out} (A)	Tech	Package	Description
VN380	6 to 24	60	0.11	5	M0-2	HEPTAWATT	Smart solenoid driver
VN380SP	6 to 24	60	0.11	5	M0-2	PowerSO-10	Smart solenoid driver
VN1160T	6 to 18	60	0.08	12	M0-3	TO-220	Direction indicator driver for Motor bikes
VN1160	6 to 18	60	0.08	12	M0-3	DPAK	Direction indicator driver for Motor bikes
VN1160-1	6 to 18	60	0.08	12	M0-3	IPAK	Direction indicator driver for Motor bikes
VND670SP	5.5 to 26	40	0.03	15	M0-3	PowerSO-10	Dual H.S.D. with dual gate drivers
VN710SP	5.5 to 16	41	0.018	35	M0-3	PowerSO-10	Glow plug for diesel motors

Switch Mode Power Supplies

P / N	V _{DD} (V)	BV _{DSS} (V)	R _{DS(on)} (Ω)	I _{DLim} (A)	P _{max} (W)	Package	Applications
VIPer20	9 to 15	620	16	0.5	20	PENTAWATT H.V.	Comp, Cons.
VIPer20(022Y)	9 to 15	620	16	0.5	20	PENTAWATT H.V. (022Y)	Comp, Cons.
VIPer20SP	9 to 15	620	16	0.5	20	PowerSO-10	Comp, Cons.
VIPer20DIP	9 to 15	620	16	0.5	20	DIP-8	Comp, Cons.
VIPer20A	9 to 15	700	18	0.5	20	PENTAWATT H.V.	Comp, Cons.
VIPer20A(022Y)	9 to 15	700	18	0.5	20	PENTAWATT H.V. (022Y)	Comp, Cons.
VIPer20ASP	9 to 15	700	18	0.5	20	PowerSO-10	Comp, Cons.
VIPer20ADIP	9 to 15	700	18	0.5	20	DIP-8	Comp, Cons.
VIPer50	9 to 15	620	5	1.5	50	PENTAWATT H.V.	Comp, Cons.
VIPer50(022Y)	9 to 15	620	5	1.5	50	PENTAWATT H.V. (022Y)	Comp, Cons.
VIPer50SP	9 to 15	620	5	1.5	50	PowerSO-10	Comp, Cons.
VIPer50A	9 to 15	700	5.7	1.5	50	PENTAWATT H.V.	Comp, Cons.
VIPer50A(022Y)	9 to 15	700	5.7	1.5	50	PENTAWATT H.V. (022Y)	Comp, Cons.
VIPer50ASP	9 to 15	700	5.7	1.5	50	PowerSO-10	Comp, Cons.
VIPer50B	9 to 15	400	2.2	3	50	PENTAWATT H.V.	Comp, Cons.
VIPer50B(022Y)	9 to 15	400	2.2	3	50	PENTAWATT H.V. (022Y)	Comp, Cons.
VIPer50BSP	9 to 15	400	2.2	3	50	PowerSO-10	Comp, Cons.
VIPer100	9 to 15	620	2.5	3	100	PENTAWATT H.V.	Comp, Cons.
VIPer100(022Y)	9 to 15	620	2.5	3	100	PENTAWATT H.V. (022Y)	Comp, Cons.
VIPer100SP	9 to 15	620	2.5	3	100	PowerSO-10	Comp, Cons.
VIPer100A	9 to 15	700	2.8	3	100	PENTAWATT H.V.	Comp, Cons.
VIPer100A(022Y)	9 to 15	700	2.8	3	100	PENTAWATT H.V. (022Y)	Comp, Cons.
VIPer100ASP	9 to 15	700	2.8	3	100	PowerSO-10	Comp, Cons.
VIPer100B	9 to 15	400	1.1	6	100	PENTAWATT H.V.	Comp, Cons.
VIPer100B(022Y)	9 to 15	400	1.1	6	100	PENTAWATT H.V. (022Y)	Comp, Cons.
VIPer100BSP	9 to 15	400	1.1	6	100	PowerSO-10	Comp, Cons.
VIPer12ADIP	9 to 40	730	30	0.32	13	DIP-8	Comp, Cons.
VIPer12AS	9 to 40	730	30	0.32	8	SO-8	Comp, Cons.
VIPer22ADIP	9 to 40	730	17	0.56	20	DIP-8	Comp, Cons.
VIPer22AS	9 to 40	730	17	0.56	12	SO-8	Comp, Cons.

H - Bridges

P / N	V _{CC} (V)	V _{DSS} (V)	R _{DS(on)} (Ω)	I _{out} (A)	Tech	Package	Description
VN770K	5.5 to 36	41	0.22	6	M0-3	SO-28	Complete H-Bridge (2H.S.D. + 2 OMNIFET)
VN771K	5.5 to 36	41	0.095	6	M0-3	SO-28	Complete H-Bridge (2H.S.D. + 2 OMNIFET)
VN772K	5.5 to 36	41	0.12	6	M0-3	SO-28	Complete H-Bridge (2H.S.D. + 2 OMNIFET)
VNH2SP30*	5.5 to 18	41	0.017	30	M0-4	MultiPowerSO-30	Complete H-Bridge
VNH3SP30 ⁰	5.5 to 26	40	0.045	30	M0-3	MultiPowerSO-30	Complete H-Bridge

* Under development ⁰ Samples available



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