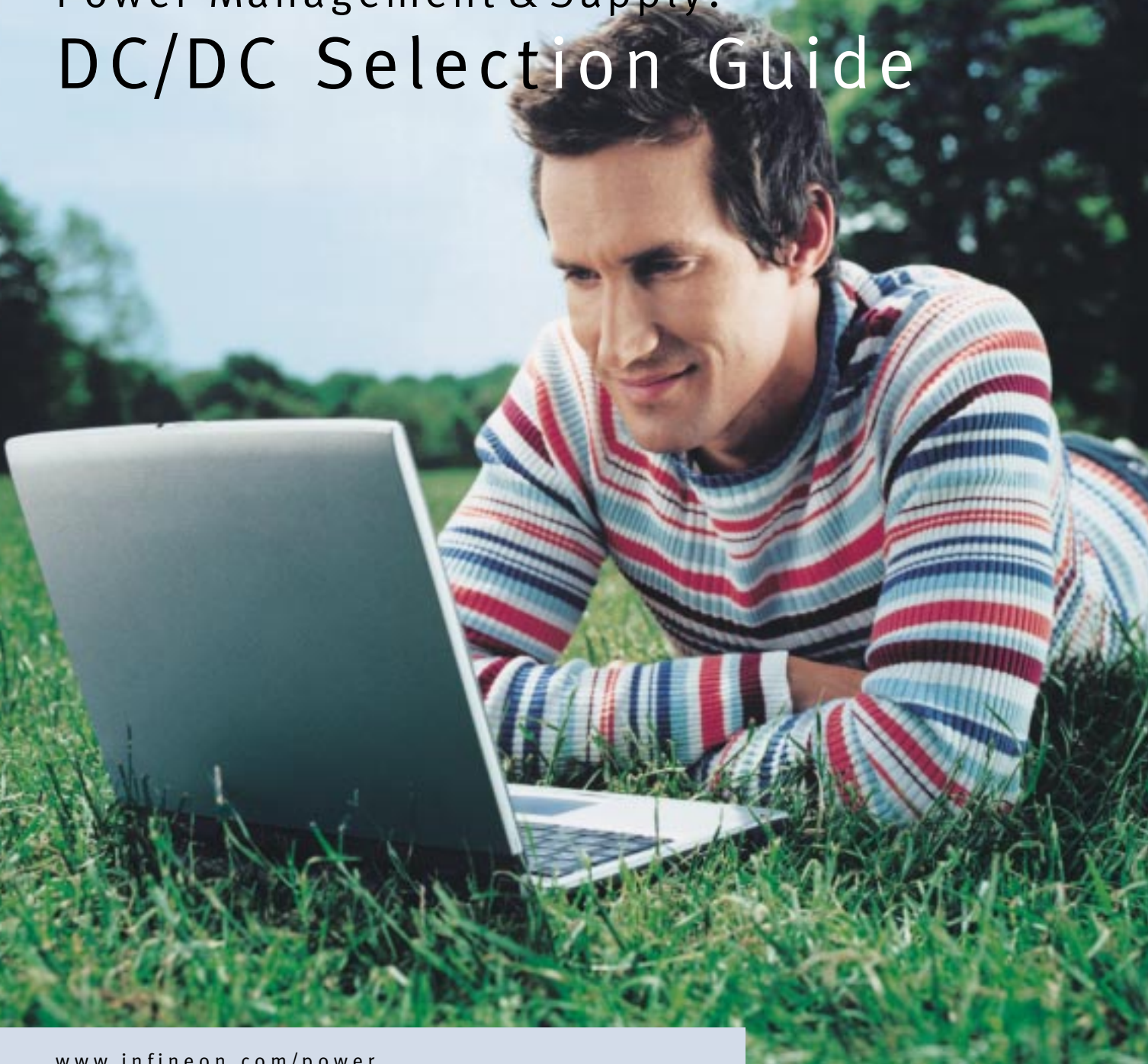


Power Management & Supply: DC/DC Selection Guide



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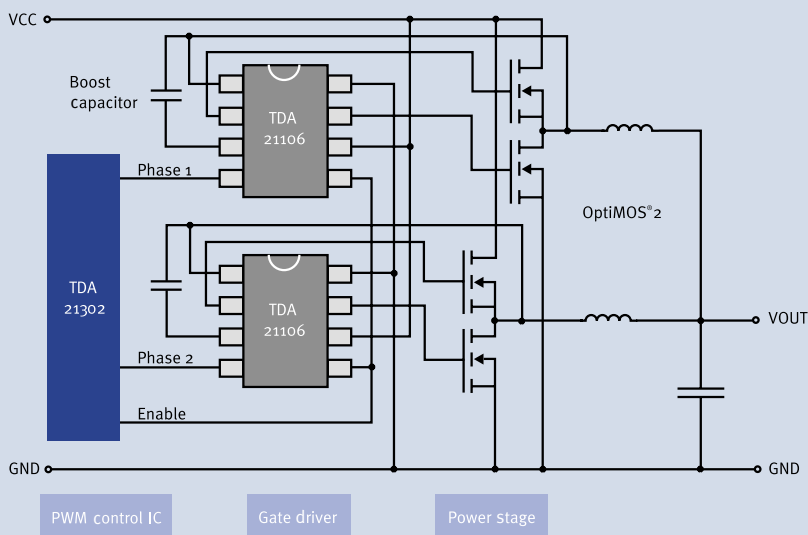
Never stop thinking.

Introduction

DC/DC CONVERSION plays a critical role in today's applications such as desktop and notebook computers, consumer equipment e.g. DVD players and set-top boxes or portable electronics, such as PDAs, MP3 players to mention but a few.

ALL THESE APPLICATIONS make ever-increasing demands on the internal power conversion; power losses must be reduced and efficiency improved, translating into less heat and a longer battery lifetime. At the same time devices are constantly shrinking in size, increasing the power density.

WE CAN HELP you out. Our OptiMOS² power MOSFET technology reduces the resistive and switching loss components significantly. The gate charge – and consequently the “figure-of-merit” of our devices – has become the new industry benchmark. More importantly, the output charge is reduced to extremely low levels, minimizing the total switching losses for a given output current. At the same time, best-in-class power MOSFETs with an on-resistance in the range of 3 mΩ and below, are now possible, making new circuit concepts and applications possible. New packages like our SS08 show strongly reduced package resistances, and – furthermore – parasitic inductances. Coupled with excellent thermal performance, our new 30 V OptiMOS² products allow for new levels of power conversion efficiency especially in portable applications. For applications with space constraints, a large product portfolio of devices in smaller packages is available, including dual and complementary devices.



IN A DC/DC CONVERTER solution all components must be optimized in order to achieve the highest efficiency and power density, at a given cost. Our low-voltage control ICs and gate drivers are designed for optimum performance, along with new ideas for control and protection functions.



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Integrated Switch

TDA 21201

- Integrated switch = Gate driver + power MOSFETs
- Used for DC/DC conversion for CPU power supply on PC mainboards
- Can also be used for any voltage conversion with high V_{IN} / V_{OUT} ratio
- Gate driver functionality: Overtemperature protection, cross-current prevention, power-down
- Package: P-TO220-7 / D²-PAK
SMD version: TDA 21201-B7
Straight lead version: TDA 21201-P7
Staggered lead version: TDA 21201-S7
- Supply voltage 12 V
- Current rating depending on cooling:
30 A (Heatsink), 18 A (SMD)
- Efficiency > 85% can be reached
- Simple board layout
- Volume production started

PWM Control IC

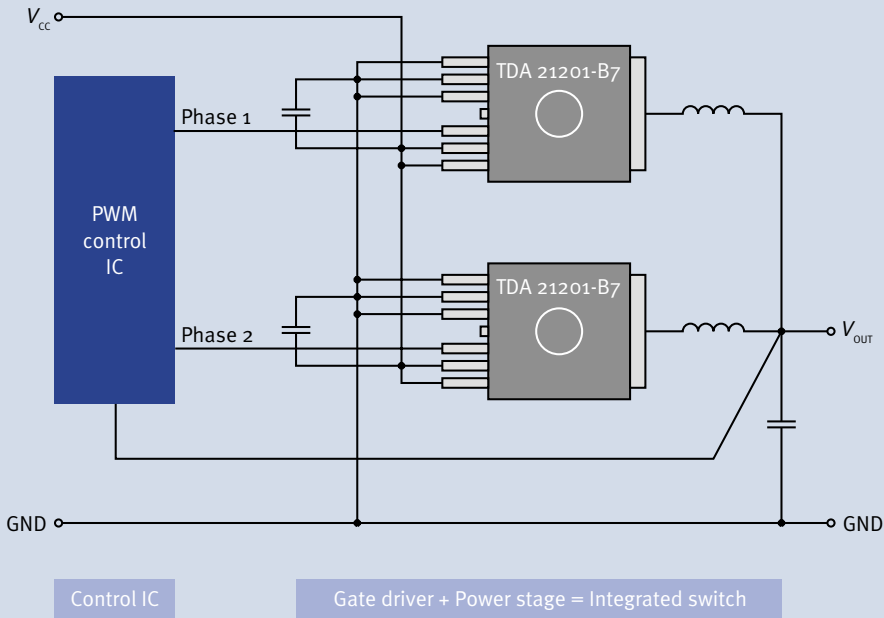
TDA 21302

- 2 – 4 Phase PWM conversion with automatic phase selection
- VRD10.x compliant
- Active droop compensation for fast load response
- Smooth Vcore voltage transition during the VID on-the-fly
- Power stage thermal balance by Sync. FET $R_{DS(on)}$ current sense technique
- Hiccup mode over current protection
- Programmable switching frequency (50 KHz – 400 KHz per phase)
- Under voltage lockout
- Soft-start
- High output ripple frequency times numbers of working channels
- Package P-DSO-32

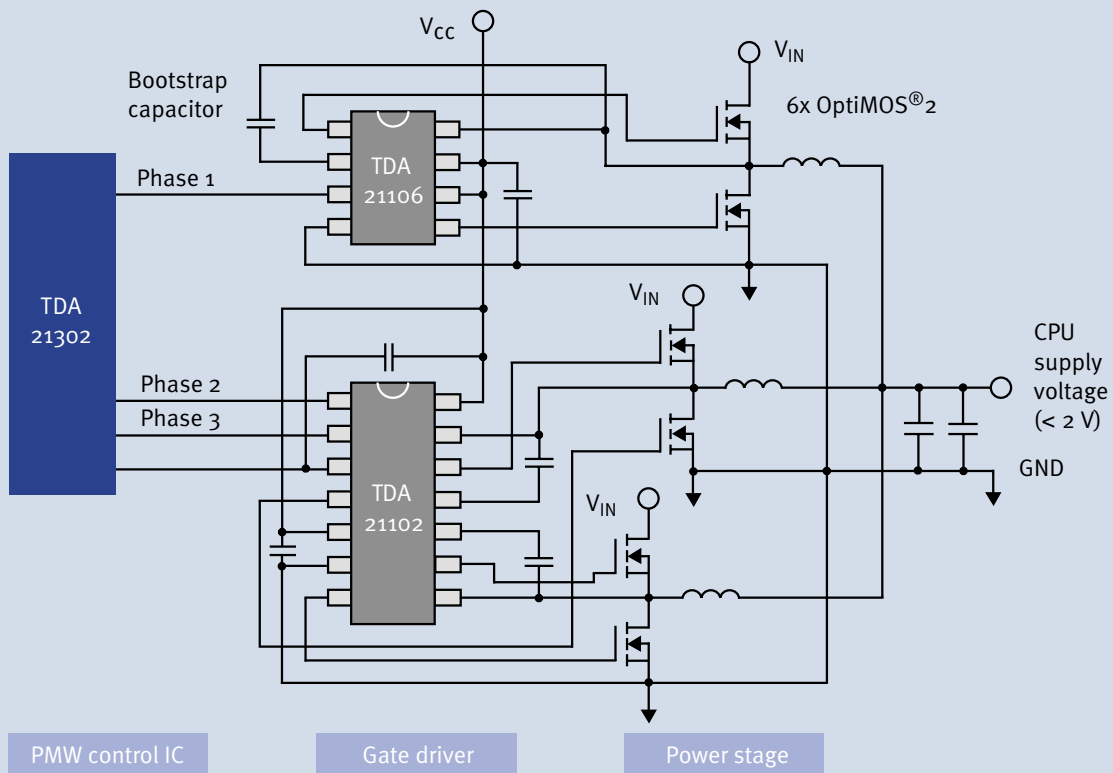
Gate Driver

TDA 21102 / TDA 21106

- High-speed MOSFET driver in single & dual version
- Drives two N-Channel MOS in half-bridge configuration (buck converter)
- Supply voltage 12 V
- Increased current handling capability for efficient high-speed designs:
Gate drive peak current 2 A
- Switching frequency > 1 MHz
- Functionality: Cross-current prevention, shut-down mode
- Package P-DSO-8 (TDA 21106), P-DSO-14 (TDA 21102)
- Compatible with Intersil HIP6601 and 6602
- Can be used with all standard PWM controllers
- No bootstrap diode required



Application example: integrated switch application circuit (2-phase solution) with a simple and clean layout



Application example: stand-alone gate driver / application circuit (3-phase solution with single and dual gate driver)

N-Channel MOSFETs

N-Channel 25 V (OptiMOS[®] 2)

Package	$R_{DS(on) \text{ max. [m}\Omega]$ @ $V_{GS} = 10 \text{ V}$	$V_{GS(th) [V]}$	$I_D [A]$	typ. $Q_g [nC]$	Type
D-PAK	3.8	1.2...2.0	50.0	31.0	IPD04N03LA
	5.1	1.2...2.0	50.0	19.0	IPD05N03LA
	5.7	1.2...2.0	50.0	17.0	IPD06N03LA
	8.6	1.2...2.0	50.0	10.0	IPD09N03LA
	10.4	1.2...2.0	30.0	8.2	IPD10N03LA
	12.8	1.2...2.0	30.0	6.0	IPD13N03LA
Reverse D-PAK	4.1	1.2...2.0	50.0	31.0	IPF04N03LA
	5.4	1.2...2.0	50.0	19.0	IPF06N03LA
	8.9	1.2...2.0	50.0	10.0	IPF09N03LA
	10.6	1.2...2.0	30.0	8.2	IPF10N03LA
	13.3	1.2...2.0	30.0	6.0	IPF13N03LA
I-PAK	4.0	1.2...2.0	50.0	31.0	IPU04N03LA
	5.3	1.2...2.0	50.0	19.0	IPU05N03LA
	5.9	1.2...2.0	50.0	17.0	IPU06N03LA
	8.8	1.2...2.0	50.0	10.0	IPU09N03LA
	10.6	1.2...2.0	30.0	8.2	IPU10N03LA
	13.0	1.2...2.0	30.0	6.0	IPU13N03LA
D ² -PAK	2.7	1.2...2.0	80.0	43.0	IPB03N03LA
	3.9	1.2...2.0	80.0	24.0	IPB04N03LA
	4.6	1.2...2.0	80.0	19.0	IPB05N03LA
	5.9	1.2...2.0	50.0	17.0	IPB06N03LA
	8.9	1.2...2.0	50.0	10.0	IPB09N03LA
	11.2	1.2...2.0	30.0	8.2	IPB11N03LA
	13.6	1.2...2.0	30.0	6.0	IPB14N03LA
TO-220 (3-leg) I-PAK (TO-262)	3.0	1.2...2.0	80.0	43.0	IPP/I03N03LA
	4.2	1.2...2.0	80.0	24.0	IPP/I04N03LA
	4.9	1.2...2.0	80.0	19.0	IPP/I05N03LA
	6.2	1.2...2.0	50.0	17.0	IPP/I06N03LA
	9.2	1.2...2.0	50.0	10.0	IPP/I09N03LA
	11.5	1.2...2.0	30.0	8.2	IPP/I11N03LA
	13.9	1.2...2.0	30.0	6.0	IPP/I14N03LA



N-Channel 30 V (OptiMOS[®])

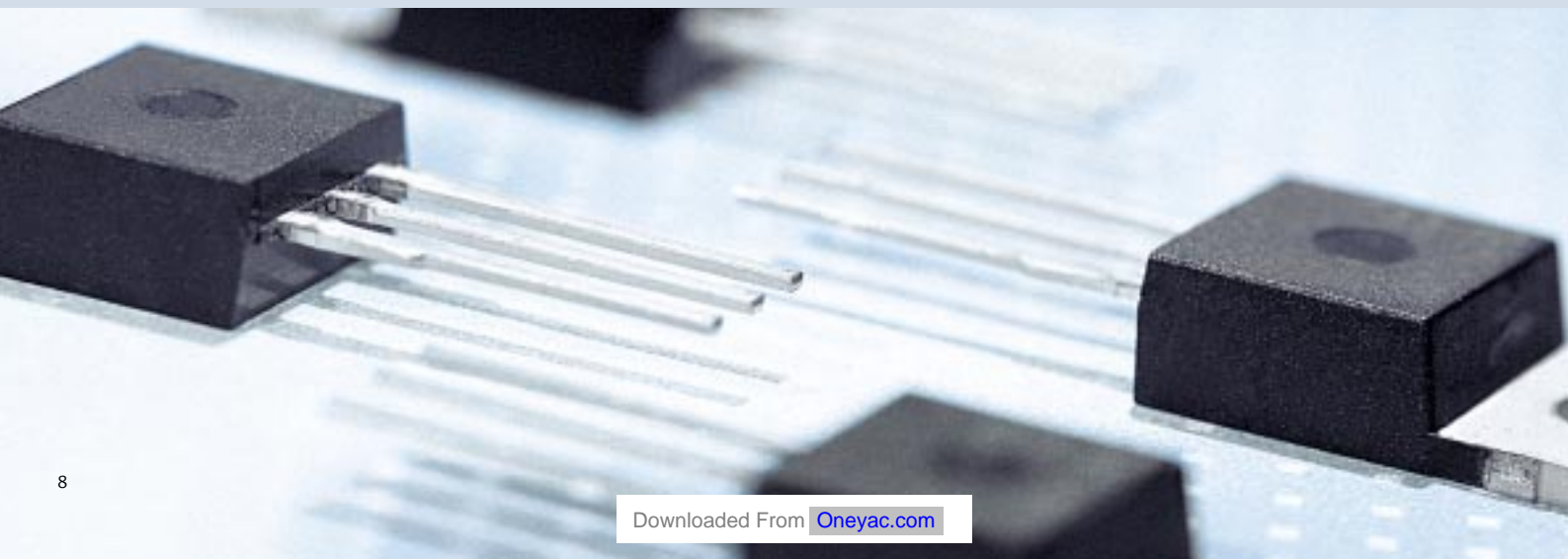
Package	$R_{DS(on) \text{ max. [m}\Omega]$ @ $V_{GS} = 10 \text{ V}$	$V_{GS(th) [V]}$	$I_D [A]$	typ. $Q_g [nC]$	Type
SO-8	7.8	1.2...2.0	13.0	27.0	BSO4420
	10.0	1.2...2.0	12.7	21.0	BSO4822
	13.0	1.2...2.0	11.1	17.0	BSO4410
	20.0	1.2...2.0	8.0	13.5	BSO4804 (dual)

N-Channel 30 V (OptiMOS[®]2)

Package	$R_{DS(on) \text{ max. [m}\Omega]$ @ $V_{GS} = 10 \text{ V}$	$V_{GS(th) [V]}$	$I_D [A]$	typ. $Q_g [nC]$	Type
SuperSO8	2.2	1.2...2.0	50.0	43.0	BSC022No3S
	3.2	1.2...2.0	50.0	29.0	BSC032No3S
	4.2	1.2...2.0	50.0	21.0	BSC042No3S
	5.2	1.2...2.0	50.0	16.0	BSC052No3S
	5.5	1.2...2.0	50.0	15.0	BSC059No3S
SO-8	5.2	1.2...2.0	17.0	32.0	BSO052No3S
	6.4	1.2...2.0	16.0	21.0	BSO064No3S
	6.8	1.2...2.0	15.0	19.0	BSO072No3S
	9.1	1.2...2.0	13.0	13.0	BSO094No3S
	9.7	1.2...2.0	13.0	12.0	BSO104No3S
	11.9	1.2...2.0	11.0	10.0	BSO119No3S
	15.0	1.2...2.0	9.1	11.0	BSO150No3 (dual)
	20.0	1.2...2.0	8.8	4.9	BSO200No3S
	30.0	1.2...2.0	7.2	3.5	BSO300No3S
	35.0	1.2...2.0	6.0	2.8	BSO350No3 (dual)

Power Series 30 V (OptiMOS®)

Package	$R_{DS(on) \text{ max.}}$ [mΩ] @ $V_{GS} = 10 \text{ V}$	$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type
D-PAK (5-leg) D-PAK	4.2	1.2...2.0	100.0	67.5	SPD100N03S2L-04
	6.7	1.2...2.0	30.0	51.0	SPD30N03S2L-07
	10.0	1.2...2.0	30.0	31.4	SPD30N03S2L-10
	20.0	1.2...2.0	30.0	14.3	SPD30N03S2L-20
	6.4	1.2...2.0	50.0	52.0	SPD50N03S2L-06
	7.3	2.1...4.0	50.0	35.0	SPD50N03S2-07
I-PAK	8.2	2.1...4.0	30.0	35.0	SPU30N03S2-08
	9.7	1.2...2.0	30.0	31.4	SPU30N03S2L-10
D ² -PAK	2.7	1.2...2.0	100.0	166.0	SPB100N03S2L-03
	3.0	2.1...4.0	100.0	113.0	SPB100N03S2-03
	2.8	1.2...2.0	80.0	166.0	SPB80N03S2-03
	3.1	2.1...4.0	80.0	110.0	SPB80N03S2-03
	3.9	1.2...2.0	80.0	79.0	SPB80N03S2L-04
	4.9	1.2...2.0	80.0	67.5	SPB80N03S2L-05
	5.9	1.2...2.0	80.0	51.0	SPB80N03S2L-06
	8.1	1.2...2.0	73.0	34.7	SPB73N03S2L-08
	12.6	1.2...2.0	42.0	22.9	SPB42N03S2L-13
TO-220 (3-leg) I ² -PAK (TO-262)	3.0	1.2...2.0	100.0	166.0	SPP/I100N03S2L-03
	3.3	2.1...4.0	100.0	113.0	SPP/I100N03S2-03
	3.1	1.2...2.0	80.0	166.0	SPP/I80N03S2L-03
	3.4	2.1...4.0	80.0	110.0	SPP/I80N03S2-03
	4.2	1.2...2.0	80.0	79.0	SPP/I80N03S2L-04
	5.2	1.2...2.0	80.0	67.5	SPP/I80N03S2L-05
	6.2	1.2...2.0	80.0	51.0	SPP/I80N03S2L-06
	8.4	1.2...2.0	73.0	34.7	SPP/I73N03S2L-08
	12.9	1.2...2.0	42.0	22.9	SPP/I42N03S2L-13



N-Channel 40 V (OptiMOS®)

Package	$R_{DS(on) \text{ max.}}$ [mΩ] @ $V_{GS} = 10 \text{ V}$	$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC] @ $V_{GS} = 10 \text{ V}$	Type
TO-220 (3-leg) D ² -PAK	3.6	2.1...4.0	100.0	129.0	SPP/B100No4S2-04
	3.3	1.2...2.0	100.0	170.0	SPP/B100No4S2L-03
	3.7	2.1...4.0	80.0	135.0	SPP/B80No4S2-04
	3.4	1.2...2.0	80.0	160.0	SPP/B80No4S2L-03
TO-220 (3-leg) TO-262/TO-263	4.0	2.1...4.0	80.0	148.0	SPP/B/180No4S2-H4
TO-263 (7-leg)	2.9	2.1...4.0	160.0	170.0	SPB160No4S2-03
	2.7	1.2...2.0	160.0	230.0	SPB160No4S2L-03

N-Channel Enhancement 50 V

Package	$R_{DS(on)}$ [mΩ]	$V_{GS(th)}$ [V]	I_D [A]	Type
SOT-223	300	0.8...2.0	1.8	BSP295

N-Channel 55 V (OptiMOS®)

Package	$R_{DS(on) \text{ max.}}$ [mΩ] @ $V_{GS} = 10 \text{ V}$	$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC] @ $V_{GS} = 10 \text{ V}$	Type
TO-220 (3-leg) D ² -PAK	4.7	1.2...2.0	100.0	165.0	SPP/B100No6S2L-05
	5.0	2.1...4.0	100.0	127.0	SPP/B100No6S2-05
	4.8	1.2...2.0	80.0	165.0	SPP/B80No6S2L-05
	5.1	2.1...4.0	80.0	120.0	SPP/B80No6S2-05
	6.3	1.2...2.0	80.0	115.0	SPP/B80No6S2L-06
	6.6	2.1...4.0	80.0	96.0	SPP/B80No6S2-07
	7.0	1.2...2.0	80.0	97.0	SPP/B80No6S2L-07
	8.0	2.1...4.0	80.0	72.0	SPP/B80No6S2-08
	8.5	1.2...2.0	80.0	78.0	SPP/B80No6S2L-09
	9.1	2.1...4.0	80.0	62.0	SPP/B80No6S2-09
	11.0	1.2...2.0	80.0	62.0	SPP/B80No6S2L-11
12.0	2.1...4.0	77.0	49.0	SPP/B77No6S2-12	
TO-220 TO-263 (3-leg)	5.0	1.2...2.0	80.0	190.0	SPP/B80No6S2L-H5
	5.5	2.1...4.0	80.0	155.0	SPP/B80No6S2-H5
D-PAK	12.7	1.2...2.0	50.0	55.0	SPD50No6S2L-13
	14.4	2.1...4.0	50.0	41.0	SPD50No6S2-14
	13.0	1.2...2.0	30.0	52.0	SPD30No6S2L-13
	14.7	2.1...4.0	30.0	40.0	SPD30No6S2-15
	23.0	1.2...2.0	30.0	33.0	SPD30No6S2L-23
	23.0	2.1...4.0	30.0	26.0	SPD30No6S2-23
	35.0	1.2...2.0	26.0	20.0	SPD26No6S2L-35
	40.0	2.1...4.0	25.0	16.0	SPD25No6S2-40
	64.0	1.2...2.0	15.0	12.0	SPD15No6S2L-64
80.0	2.1...4.0	14.0	9.0	SPD14No6S2-80	
SO-8	35.0	1.2...2.0	5.0	19.0	BSO604NS2 (dual)
SOT-223	33.0	1.2...2.0	5.2	33.0	BSP603S2L
	90.0	1.2...2.0	2.8	8.1	BSP615S2L
SOT-23	650.0	1.2...2.0	0.54	1.7	BSS670S2L

N-Channel Enhancement 60 V

Package	$R_{DS(on) \text{ max. [m}\Omega\text{] @ } V_{GS} = 10 \text{ V}}$	$V_{GS(th) [V]}$	$I_D [A]$	typ. $Q_g [nC]$	Type
SO-8	150	1.2...2.0	2.6	14.0	B50615N (dual)
SOT-223	90	1.2...2.0	2.6	14.0	BSP318S
	120	2.1...4.0	2.9	9.7	BSP320S
SOT-23	3,500	0.6...1.4	0.23	1.12	BSS138N
	5,000	0.8...2.0	0.2	1.00	SN7002N
	5,000	1.0...2.5	0.2	1.15	BSS7728N
SOT-323	3,500	0.6...1.4	0.28	1.13	BSS138W
	5,000	0.8...2.0	0.2	1.0	SN7002W

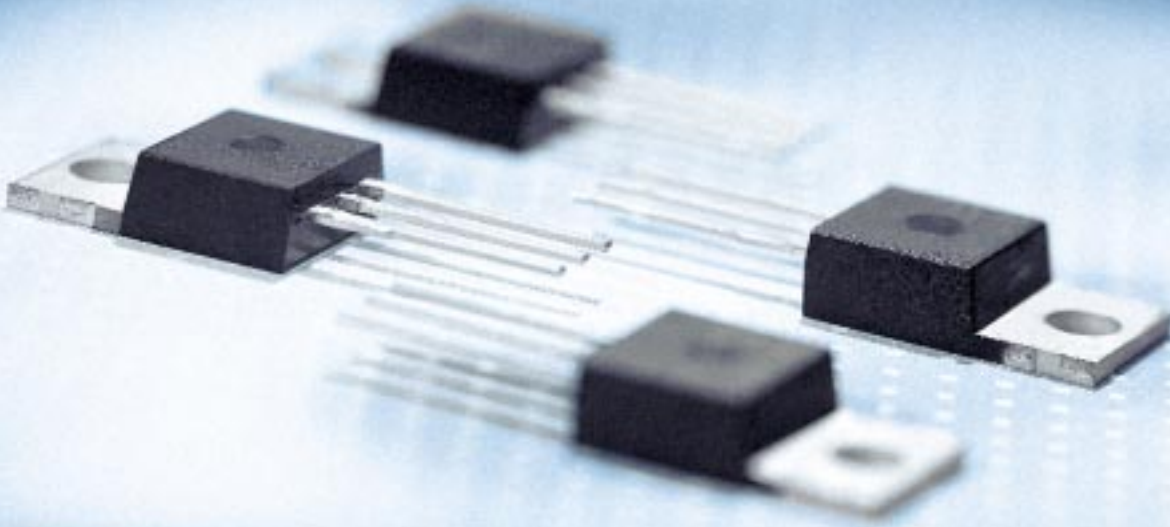
N-Channel 75 V (OptiMOS[®])

Package	$R_{DS(on) \text{ max. [m}\Omega\text{] @ } V_{GS} = 10 \text{ V}}$	$V_{GS(th) [V]}$	$I_D [A]$	typ. $Q_g [nC] @ V_{GS} = 10 \text{ V}$	Type
D-PAK	21.5	2.1...4.0	30.0	43.0	SPD30No8S2-22
	20.5	1.2...2.0	30.0	33.0	SPD30No8S2L-21
	50.0	1.2...2.0	22.0	22.0	SPD22No8S2L-50
TO-220 (3-leg) D ² -PAK	7.1	2.1...4.0	100.0	153.0	SPP/B100No8S2-07
	6.8	1.2...2.0	100.0	185.0	SPP/B100No8S2L-07
	7.4	2.1...4.0	80.0	138.0	SPP/B80No8S2-07
	7.1	1.2...2.0	80.0	186.0	SPP/B80No8S2L-07
TO-262	7.3	2.1...4.0	80.0	138.0	SPI80No8S2-07R*

* with integrated gate resistor for easy paralleling of FETs

N-Channel Enhancement 100 V

Package	$R_{DS(on) \text{ max. [m}\Omega\text{] @ } V_{GS} = 10 \text{ V}}$	$V_{GS(th) [V]}$	$I_D [A]$	typ. $Q_g [nC] @ V_{GS} = 10 \text{ V}$	Type
TO-220 (3-leg) D ² -PAK TO-262	14	1.2...2.0	80.0	160.0	SPP/B/180N10L
	16	1.2...2.0	70.0	160.0	SPP/B/170N10L
	26	1.2...2.0	47.0	90.0	SPP/B/147N10L
	33	2.1...4.0	47.0	70.0	SPP/B/147N10
	44	2.1...4.0	35.0	49.0	SPP/B/135N10
	80	2.1...4.0	21.0	28.9	SPP/B/121N10
	154	1.2...2.0	10.3	17.7	SPP/B/110N10L
	170	2.1...4.0	10.3	14.6	SPP/B/110N10
D-PAK	44	2.1...4.0	35.0	49.0	SPD35N10
	170	2.1...4.0	10.5	14.6	SPD/U11N10
SOT-223	300	2.1...4.0	1.7	–	BSP373
	310	0.8...2.0	1.7	–	BSP372
	800	0.8...2.0	1.0	–	BSP296
	6,000	0.8...2.0	0.38	–	BSP123
SOT-23	6,000	0.8...2.0	0.17	–	BSS123
	6,000	1.6...2.6	0.17	–	BSS119
TO-218	35	2.1...4.0	50.0	210.0	BUZ344
	45	2.1...4.0	41.0	78.0	BUZ345
	60	2.1...4.0	32.0	62.0	BUZ349



N-Channel Enhancement 200 V

Package	$R_{DS(on) \text{ max. } [\Omega]}$ @ $V_{GS} = 10 \text{ V}$	$V_{GS(th)} [V]$	$I_D [A]$	typ. $Q_g [nC]$ @ $V_{GS} = 10 \text{ V}$	Type
D-PAK I-PAK	0.4	2.1...4.0	7.0	21.0	SPD/U07N20
SOT-223	2.0	0.8...2.0	0.65	–	BSP297
TO-218	0.07	2.1...4.0	33.0	112.0	BUZ341
	0.12	2.1...4.0	22.0	64.0	BUZ350
TO-220 (3-leg) D ² -PAK	0.13	2.1...4.0	21.0	64.0	BUZ30A
	0.2	2.1...4.0	14.5	50.0	BUZ31
	0.2	1.2...2.0	13.5	90.0	BUZ31L
	0.4	2.1...4.0	9.5	24.0	BUZ32
	0.4	2.1...4.0	7.0	24.0	BUZ73
	0.4	1.2...2.0	7.0	58.0	BUZ73L
	0.6	2.1...4.0	5.5	24.0	BUZ73A
	0.6	1.2...2.0	5.5	58.0	BUZ73AL

N-Channel Enhancement 240 V

Package	$R_{DS(on) \text{ max. } [\Omega]}$ @ $V_{GS} = 10 \text{ V}$	$V_{GS(th)} [V]$	$I_D [A]$	Type
SOT-223	6	0.8...2.0	0.5	BSP89
	8	0.6...1.2	0.25	BSP88
SOT-89	6	0.8...2.0	0.29	BSS87
SOT-23	16	0.8...2.0	0.1	BSS131

P-Channel MOSFETs

P-Channel -20 V (OptiMOS[®])

Package	$R_{DS(on) \text{ max. [m}\Omega]}$ @ $V_{GS} = 4.5 \text{ V}$	$R_{DS(on) \text{ max. [m}\Omega]}$ @ $V_{GS} = 2.5 \text{ V}$	$V_{GS(th)} \text{ [V]}$	$I_D \text{ [A]}$	typ. $Q_g \text{ [nC]}$	Type
SO-8	8	12.9	-1.2...-0.6	14.9	85.5	BSO201SP
	21	34.0	-1.2...-0.6	9.0	33.6	BSO203SP
	21	35.0	-1.2...-0.6	8.2	32.4	BSO203P (dual)
	30	42.0	-1.2...-0.6	7.0	23.9	BSO204P (dual)
	45	70.0	-1.2...-0.6	5.7	15.6	BSO207P (dual)
	67	110.0	-1.2...-0.6	4.7	15.9	BSO211P (dual)
SOT-323	550	900.0	-1.2...-0.6	0.58	0.92	BSS209PW
	1,200	2,100.0	-1.2...-0.6	0.39	0.5	BSS223PW
SOT-363	175	285.0	-1.2...-0.6	1.5	3.8	BSV236SP
	1,200	2,100.0	-1.2...-0.6	0.35	0.5	BSD223P (dual)
TSOP-6	41	65.0	-1.2...-0.6	6.0	13.3	BSL207SP
	67	110.0	-1.2...-0.6	4.7	8.3	BSL211SP
SC-75	1,200	2,100.0	-1.2...-2.1	-0.39	-0.5	BSA223SP

P-Channel -30 V (OptiMOS[®])

Package	$R_{DS(on) \text{ max. [m}\Omega]}$ @ $V_{GS} = 10 \text{ V}$	$R_{DS(on) \text{ max. [m}\Omega]}$ @ $V_{GS} = 4.5 \text{ V}$	$V_{GS(th)} \text{ [V]}$	$I_D \text{ [A]}$	typ. $Q_g \text{ [nC]}$	Type
D-PAK (5-leg)	7	12.5	-2.0...-1.0	50.0	119.0	SPD50Po3L
SO-8	8	–	-2.2...-1.0	14.9	102.0	BSO080Po3S
	13	–	-2.2...-1.0	11.3	61.0	BSO130Po3S
	20	–	-2.2...-1.0	9.1	40.0	BSO200Po3S
	21	32.0	-2.0...-1.0	8.2	48.3	BSO303P (dual)
TSOP-6	43	74.0	-2.0...-1.0	5.5	23.4	BSL307SP

P-Channel -60 V

Package	$R_{DS(on) \text{ max. [}\Omega]}$ @ $V_{GS} = 10 \text{ V}$	$R_{DS(on) \text{ max. [}\Omega]}$ @ $V_{GS} = 4.5 \text{ V}$	$V_{GS(th)} \text{ [V]}$	$I_D \text{ [A]}$	typ. $Q_g \text{ [nC]}$	Type
D-PAK I-PAK	0.075	–	-4.0...-2.1	-30.0	32.0	SPD/U30Po6P
	0.13	–	-4.0...-2.1	-18.6	22.0	SPD/U18Po6P
	0.25	0.4	-2.0...-1.0	-9.7	14.0	SPD/U09Po6PL
	0.3	–	-4.0...-2.1	-8.8	10.0	SPD/U08Po6P
SO-8	0.13	–	-4.0...-2.1	-3.44	20.0	BSO613SPV
SOT-23	2.0	3.0	-2.0...-1.0	-0.33	2.38	BSS83P
	8.0	12.0	-2.0...-1.0	-0.17	1.0	BSS84P

P-Channel -60 V

Package	$R_{DS(on) \text{ max.}} [\Omega]$ @ $V_{GS} = 10 \text{ V}$	$R_{DS(on) \text{ max.}} [\Omega]$ @ $V_{GS} = 4.5 \text{ V}$	$V_{GS(th)} [V]$	$I_D [A]$	typ. $Q_g [nC]$	Type
SOT-223	0.13	–	-4.0...-2.1	-2.9	22.0	BSP613P
	0.3	–	-4.0...-2.1	-1.9	12.5	BSP170P
	0.3	0.45	-2.0...-1.0	-1.9	13.3	BSP171P
	0.8	1.4	-2.0...-1.0	-1.17	5.2	BSP315P
SOT-323	8.0	12.0	-2.0...-1.0	-0.15	1.0	BSS84PW*
TO-220 (3-leg) D ² -PAK	0.023	–	-4.0...-2.1	-80.0	115.0	SPP/B80Po6P
	0.13	–	-4.0...-2.1	-18.6	22.0	SPP/B18Po6P
	0.3	–	-4.0...-2.1	-8.8	10.0	SPP/Bo8Po6P

* $R_{DS(on) \text{ max.}} = 25 \Omega$, @ $V_{GS} = 2.7 \text{ V}$

P-Channel -100V

Package	$R_{DS(on) \text{ max.}} [m\Omega]$ @ $V_{GS} = 10 \text{ V}$	$R_{DS(on) \text{ max.}} [m\Omega]$ @ $V_{GS} = 4,5 \text{ V}$	$V_{GS(th)} [V]$	$I_D [A]$	typ. $Q_g [nC]$	Type
SOT-223	1.8	2.3	-2.0...-1.0	-0.68	5.1	BSP316P
TO-220	0.24	–	-4.0...-2.1	15.0	33.4	SPP15P10P

P-Channel -250V

Package	$R_{DS(on) \text{ max.}} [m\Omega]$ @ $V_{GS} = 10 \text{ V}$	$R_{DS(on) \text{ max.}} [m\Omega]$ @ $V_{GS} = 4,5 \text{ V}$	$V_{GS(th)} [V]$	$I_D [A]$	typ. $Q_g [nC]$	Type
SOT-223	5	4	-2.0...-1.0	0.43	11.6	BSP317P
	12	15	-2.0...-1.0	0.26	4.3	BSP92P
SOT-89	12	15	-2.0...-1.0	0.19	4.9	BSS192P

Complementary P/N-Enhancement

Package	$V_{DS} [V]$	$R_{DS(on)} [m\Omega]$	$V_{GS(th)} [V]$	$I_D [A]$	typ. $Q_g [nC]$		Type
					P	N	
SO-8	60	110	1.2...2.0	-3.1	13.5	15.0	BSO615C
	-60	300	-2.0...-1.0	-2.0			
	60	120	2.1...4.0	3.0	10.5	10.3	BSO612CV
	-60	300	-4.0...-2.1	-2.0			






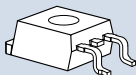
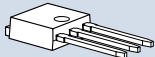


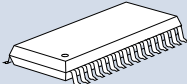
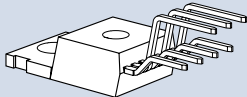



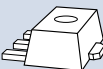
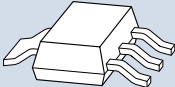


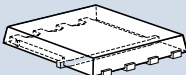
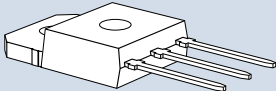
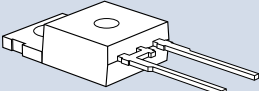
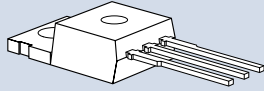
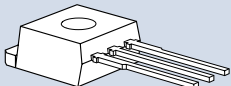

Alphanumeric Listing

Product name	Product description	Voltage class	Page	Product name	Product description	Voltage class	Page
BSA223SP	P-Channel MOSFET	-20 V	12	BSO094No3S	N-Channel MOSFET	30 V	7
BSCo22No3S	N-Channel MOSFET	30 V	7	BSO104No3S	N-Channel MOSFET	30 V	7
BSCo32No3S	N-Channel MOSFET	30 V	7	BSO119No3S	N-Channel MOSFET	30 V	7
BSCo42No3S	N-Channel MOSFET	30 V	7	BSO130Po3S	P-Channel MOSFET	-30 V	12
BSCo52No3S	N-Channel MOSFET	30 V	7	BSO150No3S (dual)	N-Channel MOSFET	30 V	7
BSCo59No3S	N-Channel MOSFET	30 V	7	BSO200No3S	N-Channel MOSFET	30 V	7
BSD223P (dual)	P-Channel MOSFET	-20 V	12	BSO200Po3S	P-Channel MOSFET	-30 V	12
BSL207SP	P-Channel MOSFET	-20 V	12	BSO201SP	P-Channel MOSFET	-20 V	12
BSL211SP	P-Channel MOSFET	-20 V	12	BSO203P (dual)	P-Channel MOSFET	-20 V	12
BSL307SP	P-Channel MOSFET	-30 V	12	BSO203SP	P-Channel MOSFET	-20 V	12
BSO052No3S	N-Channel MOSFET	30 V	7	BSO204P (dual)	P-Channel MOSFET	-20 V	12
BSO064No3S	N-Channel MOSFET	30 V	7	BSO207P (dual)	P-Channel MOSFET	-20 V	12
BSO072No3S	N-Channel MOSFET	30 V	7	BSO211P (dual)	P-Channel MOSFET	-20 V	12
BSO080Po3S	P-Channel MOSFET	-30 V	12	BSO300No3S	N-Channel MOSFET	30 V	7

Alphanumeric Listing

Product name	Product description	Voltage class	Page	Product name	Product description	Voltage class	Page
BSO303P (dual)	P-Channel MOSFET	-30 V	12	IPU06N03LA	OptiMOS2 Transistor	25 V	6
BSO350N03S (dual)	N-Channel MOSFET	30 V	7	IPU09N03LA	OptiMOS2 Transistor	25 V	6
BSO4410	N-Channel MOSFET	30 V	6	IPU10N03LA	N-Channel MOSFET	25 V	6
BSO4420	N-Channel MOSFET	30 V	6	IPU13N03LA	OptiMOS2 Transistor	25 V	6
BSO4804 (dual)	N-Channel MOSFET	30 V	6	SN7002N	N-Channel Enhancement	60 V	10
BSO4822	N-Channel MOSFET	30 V	6	SN7002W	N-Channel Enhancement	60 V	10
BSO604NS2 (dual)	N-Channel MOSFET	55 V	9	SPB160N04S2-03	N-Channel MOSFET	40 V	9
BSO613SPV	P-Channel MOSFET	-60 V	12	SPB160N04S2L-03	N-Channel MOSFET	40 V	9
BSO612CV	Complementary P/N Enhancemet MOSFET	60 V	13	SPB/P80N06S2-H5	N-Channel MOSFET	55 V	9
BSO612CV	Complementary P/N Enhancemet MOSFET	-60 V	13	SPB/P80N06S2L-H5	N-Channel MOSFET	55 V	9
BSO615C	Complementary P/N Enhancemet MOSFET	60 V	13	SPB/P180N04S2-H4	N-Channel MOSFET	40 V	9
BSO615C	Complementary P/N Enhancemet MOSFET	-60 V	13	SPD14N06S2-80	N-Channel MOSFET	55 V	9
BSO615N (dual)	N-Channel Enhancement	60 V	10	SPD15N06S2L-64	N-Channel MOSFET	55 V	9
BSP123	N-Channel Enhancement MOSFET	100 V	10	SPD22N08S2L-50	N-Channel MOSFET	75 V	10
BSP170P	P-Channel MOSFET	-60 V	13	SPD25N06S2-40	N-Channel MOSFET	55 V	9
BSP171P	P-Channel MOSFET	-60 V	13	SPD26N06S2L-35	N-Channel MOSFET	55 V	9
BSP295	N-Channel MOSFET	50 V	9	SPD30N03S2L-07	Power Series	30 V	8
BSP296	N-Channel Enhancement MOSFET	100 V	10	SPD30N03S2L-10	Power Series	30 V	8
BSP297	N-Channel Enhancement MOSFET	200 V	11	SPD30N03S2L-20	Power Series	30 V	8
BSP315P	P-Channel MOSFET	-60 V	13	SPD30N06S2-15	N-Channel MOSFET	55 V	9
BSP316P	P-Channel MOSFET	-100 V	13	SPD30N06S2-23	N-Channel MOSFET	55 V	9
BSP317P	P-Channel MOSFET	-240 V	13	SPD30N06S2L-13	N-Channel MOSFET	55 V	9
BSP318S	N-Channel Enhancement	60 V	10	SPD30N08S2L-23	N-Channel MOSFET	55 V	9
BSP320S	N-Channel Enhancement	60 V	10	SPD30N08S2-22	N-Channel MOSFET	75 V	10
BSP372	N-Channel Enhancement MOSFET	100 V	10	SPD30N08S2L-21	N-Channel MOSFET	75 V	10
BSP373	N-Channel Enhancement MOSFET	100 V	10	SPD35N10	N-Channel Enhancement MOSFET	100 V	10
BSP603S2L	N-Channel MOSFET	55 V	9	SPD50N03S2-07	Power Series	30 V	8
BSP613P	P-Channel MOSFET	-60 V	13	SPD50N03S2L-06	Power Series	30 V	8
BSP615S2L	N-Channel MOSFET	55 V	9	SPD50N06S2-14	N-Channel MOSFET	55 V	9
BSP88	N-Channel Enhancement	240 V	11	SPD50N06S2L-13	N-Channel MOSFET	55 V	9
BSP89	N-Channel Enhancement	240 V	11	SPD50P03L	P-Channel MOSFET	-30 V	12
BSP92P	P-Channel MOSFET	-240 V	13	SPD100N03S2L-04	Power Series	30 V	8
BSS119	N-Channel Enhancement MOSFET	100 V	10	SPD/U07N20	N-Channel Enhancement MOSFET	200 V	11
BSS123	N-Channel Enhancement MOSFET	100 V	10	SPD/U08P06P	P-Channel MOSFET	-60 V	12
BSS131	N-Channel Enhancement	240 V	11	SPD/U09P06PL	P-Channel MOSFET	-60 V	12
BSS138N	N-Channel Enhancement	60 V	10	SPD/U11N10	N-Channel Enhancement MOSFET	100 V	10
BSS138W	N-Channel Enhancement	60 V	10	SPD/U18P06P	P-Channel MOSFET	-60 V	12
BSS192P	P-Channel MOSFET	-240 V	13	SPD/U30P06P	P-Channel MOSFET	-60 V	12
BSS209PW	P-Channel MOSFET	-20 V	12	SPI80N08S2-07R	N-Channel MOSFET	75 V	10
BSS223PW	P-Channel MOSFET	-20 V	12	SPP15P10P	P-Channel MOSFET	-100 V	13
BSS670S2L	N-Channel MOSFET	55 V	9	SPP/B08P06P	P-Channel MOSFET	-60 V	13
BSS7728N	N-Channel Enhancement	60 V	10	SPP/B18P06P	P-Channel MOSFET	-60 V	13
BSS83P	P-Channel MOSFET	-60 V	12	SPP/B77N06S2-12	N-Channel MOSFET	55 V	9
BSS84P	P-Channel MOSFET	-60 V	12	SPP/B80N04S2-04	N-Channel MOSFET	40 V	9
BSS84PW	P-Channel MOSFET	-60 V	13	SPP/B80N04S2L-03	N-Channel MOSFET	40 V	9
BSS87	N-Channel Enhancement	240 V	11	SPP/B80N06S2-05	N-Channel MOSFET	55 V	9
BSV236SP	P-Channel MOSFET	-20 V	12	SPP/B80N06S2L-05	N-Channel MOSFET	55 V	9
BUZ30A	N-Channel Enhancement MOSFET	200 V	11	SPP/B80N06S2L-06	N-Channel MOSFET	55 V	9
BUZ31	N-Channel Enhancement MOSFET	200 V	11	SPP/B80N06S2-07	N-Channel MOSFET	55 V	9
BUZ31L	N-Channel Enhancement MOSFET	200 V	11	SPP/B80N06S2-08	N-Channel MOSFET	55 V	9
BUZ32	N-Channel Enhancement MOSFET	200 V	11	SPP/B80N06S2-09	N-Channel MOSFET	55 V	9
BUZ341	N-Channel Enhancement MOSFET	200 V	11	SPP/B80N06S2L-09	N-Channel MOSFET	55 V	9
BUZ344	N-Channel Enhancement MOSFET	100 V	10	SPP/B80N06S2L-11	N-Channel MOSFET	55 V	9
BUZ345	N-Channel Enhancement MOSFET	100 V	10	SPP/B80N08S2-07	N-Channel MOSFET	75 V	10
BUZ349	N-Channel Enhancement MOSFET	100 V	10	SPP/B80N08S2L-07	N-Channel MOSFET	75 V	10
BUZ350	N-Channel Enhancement MOSFET	200 V	11	SPP/B80P06P	P-Channel MOSFET	-60 V	13
BUZ73	N-Channel Enhancement MOSFET	200 V	11	SPP/B100N04S2-04	N-Channel MOSFET	40 V	9
BUZ73A	N-Channel Enhancement MOSFET	200 V	11	SPP/B100N04S2L-03	N-Channel MOSFET	40 V	9
BUZ73AL	N-Channel Enhancement MOSFET	200 V	11	SPP/B100N06S2-05	N-Channel MOSFET	55 V	9
BUZ73L	N-Channel Enhancement MOSFET	200 V	11	SPP/B100N06S2L-05	N-Channel MOSFET	55 V	9
IPB03N03LA	OptiMOS2 Transistor	25 V	6	SPP/B100N08S2-07	N-Channel MOSFET	75 V	10
IPB04N03LA	OptiMOS2 Transistor	25 V	6	SPP/B100N08S2L-07	N-Channel MOSFET	75 V	10
IPB05N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/110N10	N-Channel Enhancement MOSFET	100 V	10
IPB06N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/110N10L	N-Channel Enhancement MOSFET	100 V	10
IPB09N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/121N10	N-Channel Enhancement MOSFET	100 V	10
IPB11N03LA	N-Channel MOSFET	25 V	6	SPP/B/135N10	N-Channel Enhancement MOSFET	100 V	10
IPB14N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/142N03S2L-13	Power Series	30 V	9
IPD04N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/147N10	N-Channel Enhancement MOSFET	100 V	10
IPD05N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/147N10L	N-Channel Enhancement MOSFET	100 V	10
IPD06N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/170N10L	N-Channel Enhancement MOSFET	100 V	10
IPD09N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/173N03S2L-08	Power Series	30 V	9
IPD10N03LA	N-Channel MOSFET	25 V	6	SPP/B/180N10L	N-Channel Enhancement MOSFET	100 V	10
IPD13N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/180N03S2-03	Power Series	30 V	8
IPF04N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/180N03S2L-03	Power Series	30 V	8
IPF06N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/180N03S2L-04	Power Series	30 V	8
IPF09N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/180N03S2L-05	Power Series	30 V	8
IPF10N03LA	N-Channel MOSFET	25 V	6	SPP/B/180N03S2L-06	Power Series	30 V	8
IPF13N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/1100N03S2-03	Power Series	30 V	8
IPF14N03LA	OptiMOS2 Transistor	25 V	6	SPP/B/1100N03S2L-03	Power Series	30 V	8
IPP/103N03LA	OptiMOS2 Transistor	25 V	6	SPU30N03S2-08	Power Series	30 V	8
IPP/104N03LA	OptiMOS2 Transistor	25 V	6	SPU30N03S2L-10	Power Series	30 V	8
IPP/105N03LA	OptiMOS2 Transistor	25 V	6	SPP/B100N06S2L-05	N-Channel MOSFET	55 V	9
IPP/106N03LA	OptiMOS2 Transistor	25 V	6	TDA21102	Dual Gate Driver	IC	4
IPP/109N03LA	OptiMOS2 Transistor	25 V	6	TDA21106	Single Gate Driver	IC	4
IPP/111N03LA	N-Channel MOSFET	25 V	6	TDA21201	Integrated Switch	IC	4
IPP/114N03LA	OptiMOS2 Transistor	25 V	6	TDA21302	PWM Control IC	IC	4
IPU04N03LA	OptiMOS2 Transistor	25 V	6				
IPU05N03LA	N-Channel MOSFET	25 V	6				

Packages

<p>D-PAK (P-TO252-3-1)</p> 	<p>Reverse D-PAK (P-TO252-3-23)</p> 	<p>D-PAK (5-leg) (P-TO252-5-1)</p> 	<p>D²-PAK (P-TO263-3-2)</p> 
<p>I-PAK (P-TO251-3-1)</p> 	<p>P-DSO-8</p> 	<p>P-DSO-14</p> 	<p>P-DSO-32</p> 
<p>P-TO220-7</p> 	<p>SC-75</p> 	<p>SO-8 (P-DSO-8-1)</p> 	<p>SOT-23 (P-SOT23-3)</p> 
<p>SOT-89 (P-SOT89-4)</p> 	<p>SOT-223 (P-SOT223-4)</p> 	<p>SOT-323 (P-SOT323-3)</p> 	<p>SOT-363 (P-SOT363-6)</p> 
<p>Super SO-8</p> 	<p>TO-218 (P-TO218-3-1)</p> 	<p>TO-220 (2-leg) (P-TO220-2-2)</p> 	<p>TO-220 (3-leg) (P-TO220-3-1)</p> 
<p>I²-PAK (TO-262)</p> 	<p>TSOP-6 (P-TSOP-6-1)</p> 		

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