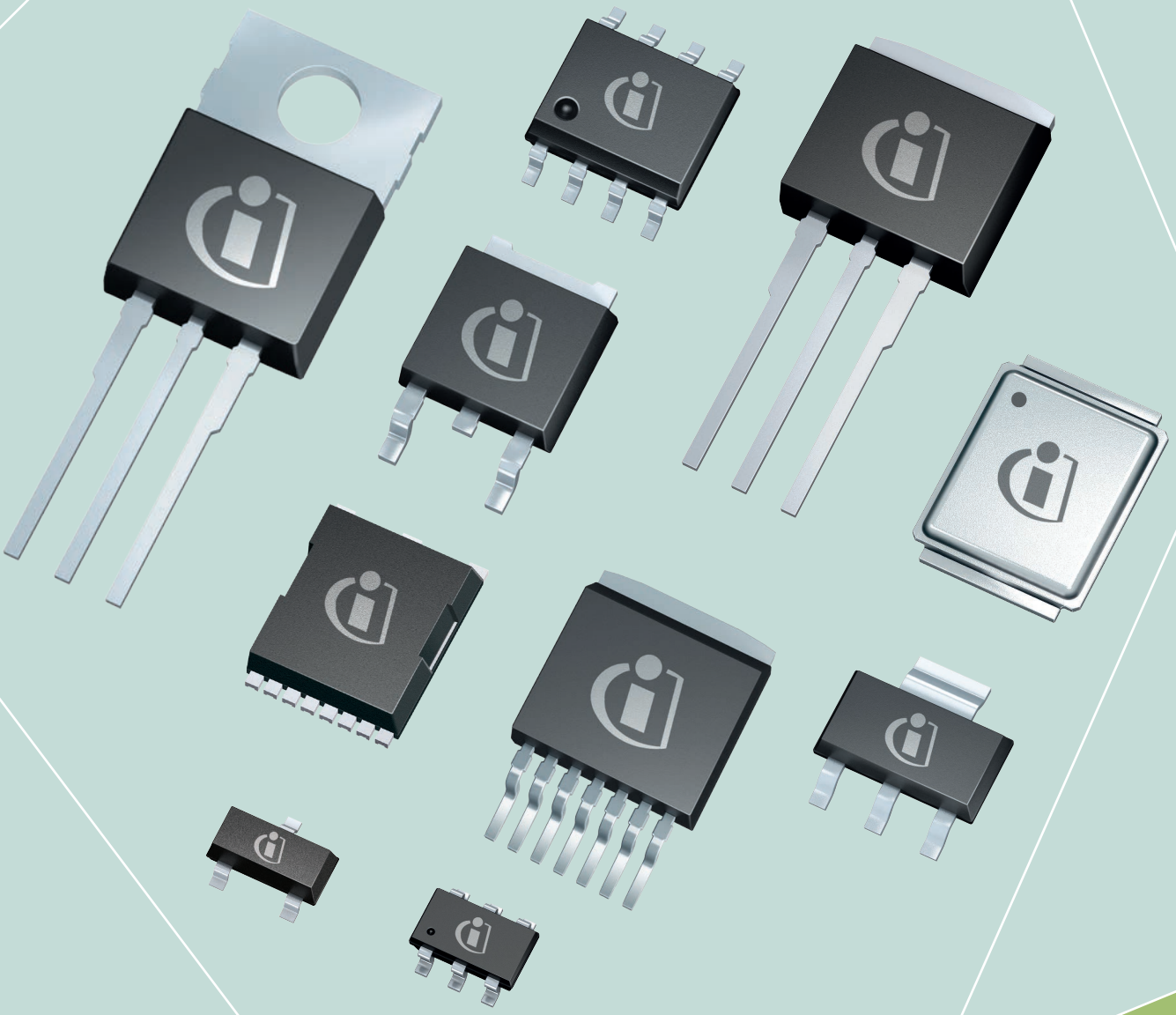


OptiMOS™ automotive MOSFETs

Product overview

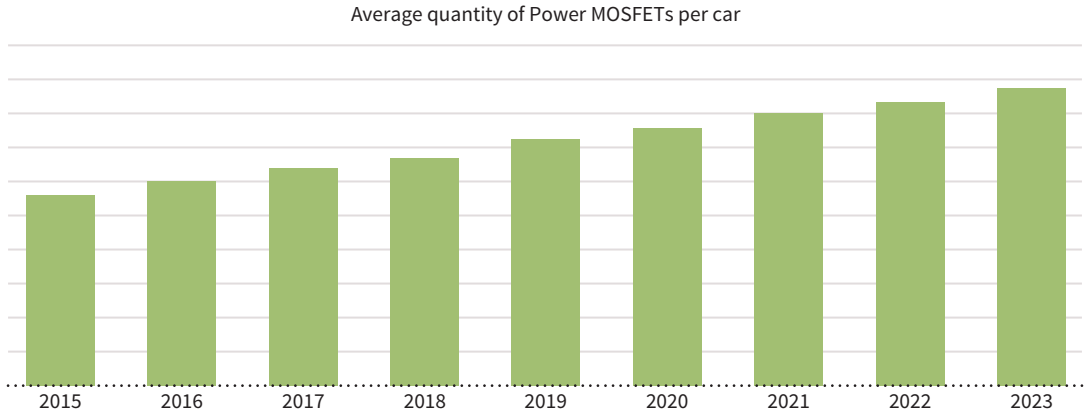
www.infineon.com/automotivemosfet

Contents

Automotive MOSFETs do contribute to your success

We offer you high quality beyond AEC-Q101

The amount of power MOSFETs per car continuously increases, as more features are embedded in every new car sold worldwide. The amount of MOSFETs becomes even higher in electric high-end cars where up to 400 MOSFETs can be found in a single car. For this reason it gets more and more important to use high quality automotive MOSFETs.



All automotive qualified MOSFETs are following the AEC-Q101 qualification standard. Infineon does more than that in order to achieve more robust products and a very low dpm rate.

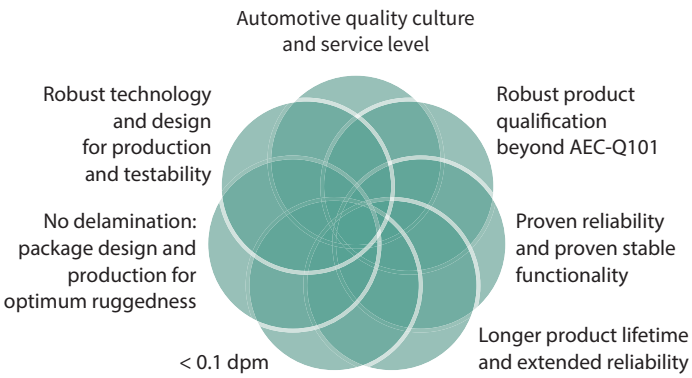
Why is AEC-Q101 not enough for us?

› It may not cover “untypical or stringent” mission profiles
› It does not provide any indication on the stability of the manufacturing process over the years
› It doesn’t prove any dpm below 10 000

How do we achieve the best quality you can get in the market?

› Robustness
  – Strong application know-how, good requirement capturing for product, technology and process roadmaps
  – Dedicated automotive design goals based on 40 years of experience in automotive
  – Stringent product monitoring/process controls
  – Enhanced test coverage
› Enhanced testing and qualification
  – More than just the datasheet parameters
  – Qualification beyond AEC-Q101
  – Usage of PAT (Part Average Testing) in front-end and back-end for power MOSFET

What have we achieved so far?



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OptiMOS™ automotive MOSFETs

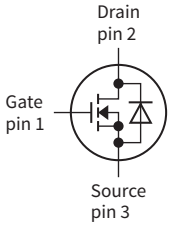
Infineon OptiMOS™ automotive MOSFET portfolio offers benchmark quality, wide voltage range and diversified package

- Best in class $R_{DS(on)}$ performance for increased system efficiency
- Lowest switching and conduction power losses for increased thermal system reliability
- Benchmark for quality and reliability
- Wide voltage range from 24 to 300 V for N-Channel FET, and from 20 to 150 V for P-Channel FET
- Robust green package for easy process handling
- Diversified package portfolio caters to customers' needs for
  - Package size minimization (down to 11 mm^2 in S3O8)
  - High current capability (up to 300 A in TOLL)

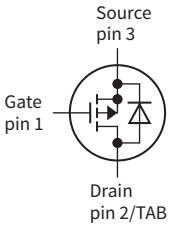
AEC Qualified

RoHS

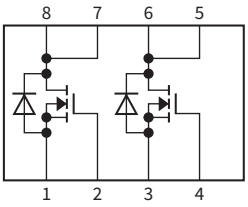
N-Channel



P-Channel



Dual channel



Polarity	Voltage class [V]	Trench MOSFET						Planar MOSFET		
		OptiMOS™-5	OptiMOS™-T2	OptiMOS™-T	Gen12.7 former IR MOSFETs	Gen10.7 former IR MOSFETs	Gen10.2 former IR MOSFETs	OptiMOS™	Gen7 former IR MOSFETs	Gen5 former IR MOSFETs
N-Channel	24						●			
N-Channel	30		●				●	●	●	●
N-Channel	40	●	●	●	●	●	●	●	●	
N-Channel	55						●	●	●	●
N-Channel	60		●			●	●		●	
N-Channel	75					●	●	●	●	
N-Channel	80	●	●							
N-Channel	100	●	●	●		●	●			●
N-Channel	120		●							
N-Channel	150					●				●
N-Channel	200					●				
N-Channel	250			●		●				
N-Channel	300					●				
P-Channel	20									●
P-Channel	30		●							●
P-Channel	40		●							
P-Channel	55									●
P-Channel	100									●
P-Channel	150									●
Dual N-Channel	2 x 30									●
Dual N-Channel	2 x 40		●		●					
Dual N-Channel	2 x 50									●
Dual N-Channel	2 x 55							●		●
Dual N-Channel	2 x 60		●							
Dual N-Channel	2 x 100		●							
Dual P-Channel	2 x 20									●
Dual P-Channel	2 x 30									●
Dual P-Channel	2 x 55									●
Dual N+P Channel	2 x 30									●
Dual N+P Channel	2 x 55									●

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OptiMOS™ automotive MOSFETs naming system for new products

I	A	U	D	180	N	04	S5	N	055	X

I Infineon

A Automotive

U/X Standard/ extended (i.e. qualification)

Package type:
- A sTOLL
- B TO263/D²PAK
- C Single SSO8 (TDSON-8)
- D TO252/DPAK
- E Embedding standard cell
- G Dual SSO8 (TDSON-8)
- I TO262/I²PAK
- P TO220
- S TOLG (SUPiRPAK)
- T TOLL (H-PSOF, MO-299)
- Z S3O8 (TSDSON-8)

Continuous drain current I_D (max)
IAUD50 for a 50 A DPAK

P P-Channel
N N-Channel

Breakdown voltage:
V_{BrDSS} ÷ 10

Technology:
- S5 OptiMOS™-5
- S6 OptiMOS™-6

L Logic level
N Normal level

$R_{DS(on)}$ (max) xx.x mΩ

Additional package type

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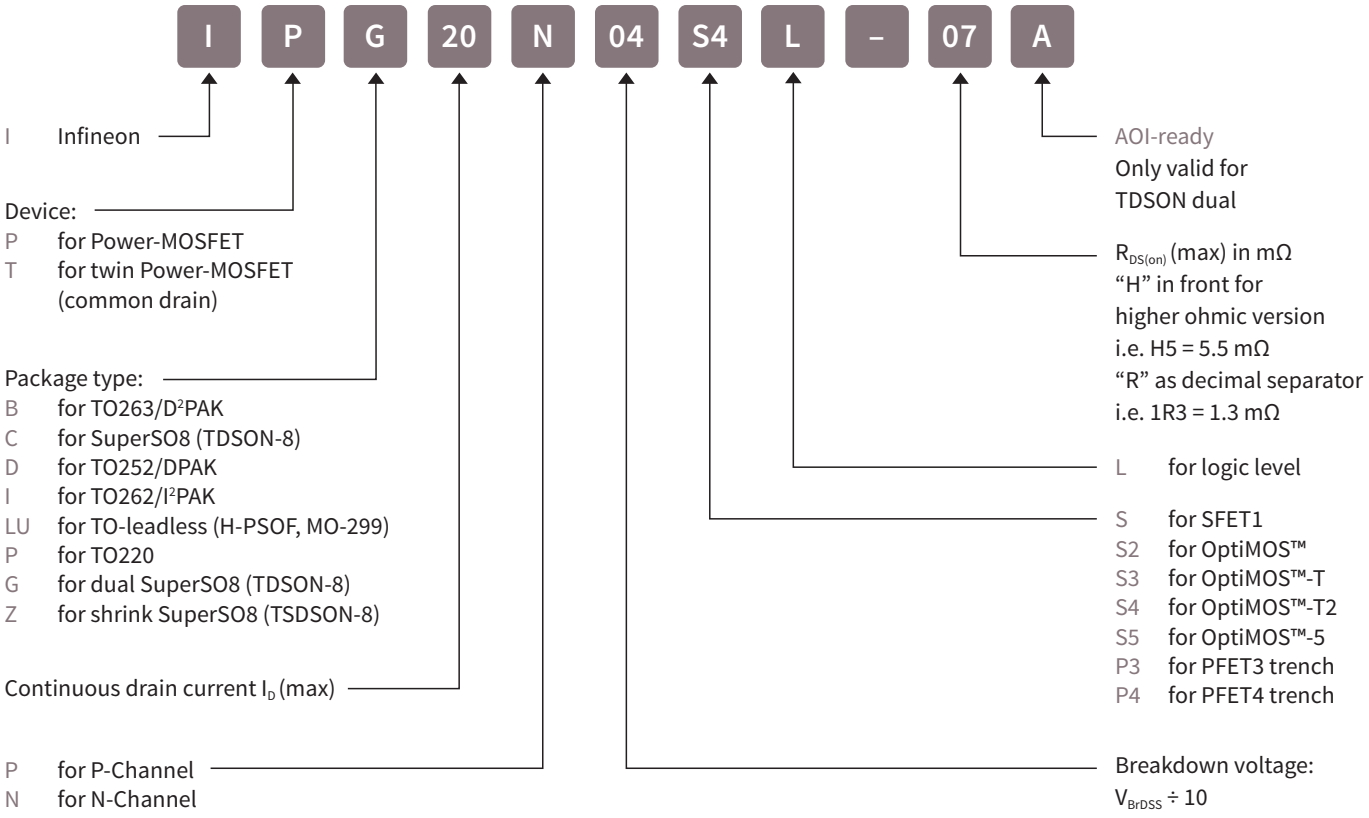
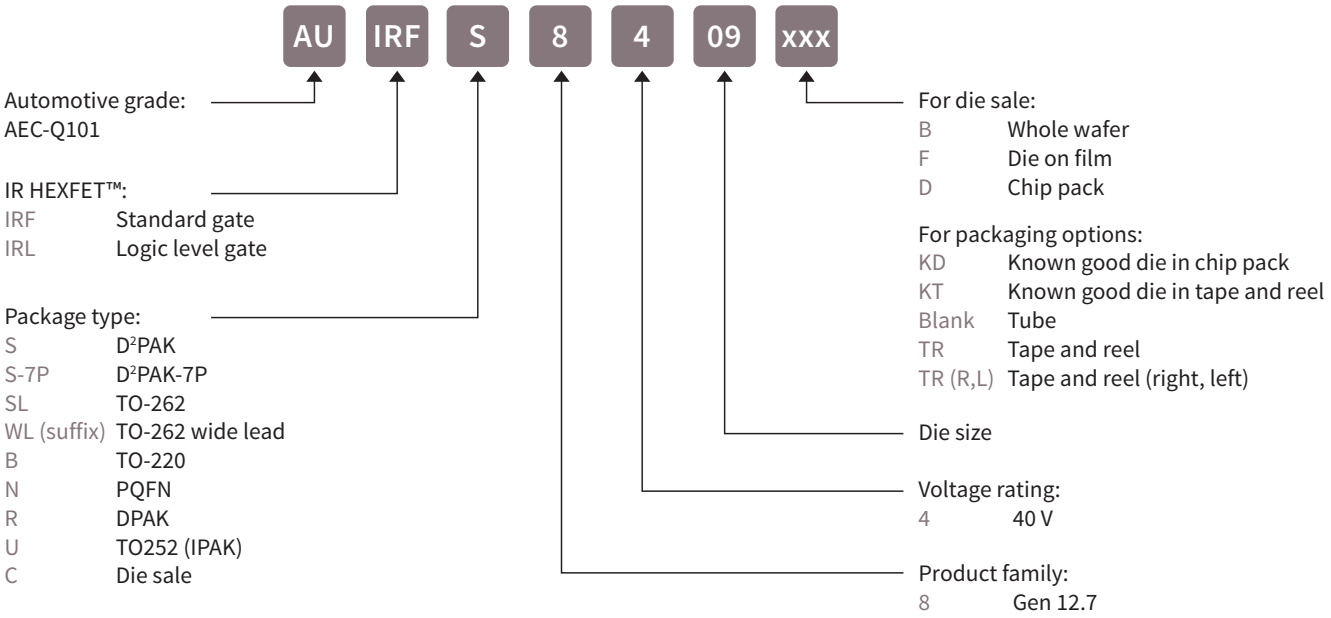
Infineon OptiMOS™ automotive MOSFETs naming system



Former IRF COOLiRFET™ naming system



Automotive N-Channel MOSFETs

24 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF1324S-7P	Gen 10.2	1.00	240	0.50	2.00 … 4.00	180	Normal	TO-263-7 (D^2PAK 7-leg)
AUIRF1324WL	Gen 10.2	1.30	240	0.50	2.00 … 4.00	120	Normal	TO-262 WideLead
AUIRF1324	Gen 10.2	1.50	195	0.50	2.00 … 4.00	160	Normal	TO-220
AUIRFP2602	Gen 10.2	1.60	180	0.40	2.00 … 4.00	260	Normal	TO-247
AUIRF1324S	Gen 10.2	1.65	195	0.50	2.00 … 4.00	160	Normal	TO-263-3 (D^2PAK)

30 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB240N03S4L-R8	OptiMOS™-T2	0.76	240	0.50	1.00 … 2.20	290	Logic	TO263-7-3
IPB240N03S4L-R9	OptiMOS™-T2	0.92	240	0.70	1.00 … 2.20	230	Logic	TO263-7-3
IPB180N03S4L-H0	OptiMOS™-T2	0.95	180	0.60	1.00 … 2.20	230	Logic	TO263-7-3
IPB180N03S4L-01	OptiMOS™-T2	1.05	180	0.80	1.00 … 2.20	187	Logic	TO263-7-3
IPD90N03S4L-02	OptiMOS™-T2	2.20	90	1.10	1.00 … 2.20	110	Logic	TO252-3 (DPAK)
IPB80N03S4L-02	OptiMOS™-T2	2.40	80	1.10	1.00 … 2.20	110	Logic	TO263-3-2
AUIRF2903ZL	Gen 10.2	2.40	160	0.65	2.00 … 4.00	160	Normal	TO-262
AUIRF2903ZS	Gen 10.2	2.40	160	0.65	2.00 … 4.00	160	Normal	TO-263-3 (D^2PAK)
IPI80N03S4L-03	OptiMOS™-T2	2.70	80	1.10	1.00 … 2.20	110	Logic	TO262-3
IPP80N03S4L-03	OptiMOS™-T2	2.70	80	1.10	1.00 … 2.20	110	Logic	TO220-3
IPB120N03S4L-03	OptiMOS™-T2	3.00	120	1.90	1.00 … 2.20	55	Logic	TO263-3-2
IPD90N03S4L-03	OptiMOS™-T2	3.30	90	1.60	1.00 … 2.20	60	Logic	TO252-3 (DPAK)
IPB80N03S4L-03	OptiMOS™-T2	3.40	80	1.60	1.00 … 2.20	60	Logic	TO263-3-2
IPD70N03S4L-04	OptiMOS™-T2	4.30	70	2.20	1.00 … 2.20	37	Logic	TO252-3 (DPAK)
IPD50N03S4L-06	OptiMOS™-T2	5.50	50	2.70	1.00 … 2.20	24	Logic	TO252-3 (DPAK)
IPD40N03S4L-08	OptiMOS™-T2	8.00	40	3.60	1.00 … 2.20	15	Logic	TO252-3 (DPAK)
IPD30N03S4L-09	OptiMOS™-T2	9.00	30	3.60	1.00 … 2.20	15	Logic	TO252-3 (DPAK)
IPD30N03S4L-14	OptiMOS™-T2	13.60	30	4.90	1.00 … 2.20	11	Logic	TO252-3 (DPAK)
IPB22N03S4L-15	OptiMOS™-T2	14.60	22	4.90	1.00 … 2.20	11	Logic	TO263-3-2

40 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF8739L2	Gen 12.7	0.60	375	0.44	2.20 … 3.90	375.00	Normal	DirectFET™2 L8
AUIRFSA8409-7P	Gen 12.7	0.69	360	0.40	2.20 … 3.90	305.00	Normal	TO-263-7 (D^2PAK 7-leg)
AUIRLS8409-7P	Gen 12.7	0.75	240	0.40	1.00 … 2.40	177.00	Logic	TO-263-7 (D^2PAK 7-leg)
AUIRFS8409-7P	Gen 12.7	0.75	240	0.40	2.20 … 3.90	305.00	Normal	TO-263-7 (D^2PAK 7-leg)
IPLU300N04S4-R8	OptiMOS™-T2	0.77	300	0.35	2.00 … 4.00	221.00	Normal	HSOF-8-1 (H-PSOF)
IPB240N04S4-R9	OptiMOS™-T2	0.87	240	0.50	2.00 … 4.00	220.00	Normal	TO263-7-3
IPB180N04S4-00	OptiMOS™-T2	0.98	180	0.50	2.00 … 4.00	220.00	Normal	TO263-7-3
IPB240N04S4-1R0	OptiMOS™-T2	1.00	240	0.65	2.00 … 4.00	170.00	Normal	TO263-7-3
IPB180N04S4L-H0	OptiMOS™-T2	1.00	180	0.60	1.20 … 2.20	239.00	Logic	TO263-7-3
AUIRF7739L2	Gen 10.7	1.00	270	1.20	2.00 … 4.00	220.00	Normal	DirectFET™2 L8
AUIRFS8408-7P	Gen 12.7	1.00	240	0.51	2.20 … 3.90	210.00	Normal	TO263-7-3

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40 V (Trench) (cont'd)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB180N04S4-H0	OptiMOS™-T2	1.10	180	0.60	2.00 … 4.00	173.00	Normal	TO263-7-3
IPC100N04S5L-1R1	OptiMOS™-5	1.10	100	1.00	1.20 … 2.00	105.00	Logic	TDSON-8-34 SuperSO8 single
IPLU300N04S4-1R1	OptiMOS™-T2	1.15	300	0.50	2.00 … 4.00	116.00	Normal	HSOF-8-1 (H-PSOF)
IPB180N04S4L-01	OptiMOS™-T2	1.20	180	0.80	1.20 … 2.20	188.00	Logic	TO263-7-3
AUIRFS8409	Gen 12.7	1.20	195	0.40	2.20 … 3.90	300.00	Normal	TO-263-3 (D^2PAK)
AUIRFSL8409	Gen 12.7	1.20	195	0.40	2.20 … 3.90	300.00	Normal	TO-262
IPC100N04S5-1R2	OptiMOS™-5	1.20	100	1.00	2.20 … 3.40	99.00	Normal	TDSON-8-34 SuperSO8 single
IPB180N04S4-01	OptiMOS™-T2	1.30	180	0.80	2.00 … 4.00	135.00	Normal	TO263-7-3
AUIRFB8409	Gen 12.7	1.30	195	0.40	2.20 … 3.90	300.00	Normal	TO-220
AUIRFS8407-7P	Gen 12.7	1.30	240	0.65	2.20 … 3.90	150.00	Normal	TO-263-7 (D^2PAK 7-leg)
AUIRF3004WL	Gen 10.7	1.40	240	0.40	2.00 … 4.00	140.00	Normal	TO-262 WideLead
AUIRLS3034-7P	Gen 10.7	1.40	240	0.40	1.00 … 2.50	120.00	Logic	TO-263-7 (D^2PAK 7-leg)
IPB160N04S4L-H1	OptiMOS™-T2	1.50	160	0.90	1.20 … 2.20	146.00	Logic	TO263-7-3
IPI120N04S4-01	OptiMOS™-T2	1.50	120	0.80	2.00 … 4.00	135.00	Normal	TO262-3
IPB120N04S4-01	OptiMOS™-T2	1.50	120	0.80	2.00 … 4.00	135.00	Normal	TO263-3-2
IPC100N04S5L-1R5	OptiMOS™-5	1.50	100	1.30	1.20 … 2.00	70.00	Logic	TDSON-8-34 SuperSO8 single
IPB160N04S4-H1	OptiMOS™-T2	1.60	160	0.90	2.00 … 4.00	105.00	Normal	TO263-7-3
AUIRF7738L2	Gen 10.7	1.60	184	1.60	2.00 … 4.00	129.00	Normal	DirectFET™2 L6
IPLU250N04S4-1R7	OptiMOS™-T2	1.70	250	0.80	2.00 … 4.00	76.00	Normal	HSOF-8-1 (H-PSOF)
IPB120N04S4L-02	OptiMOS™-T2	1.70	120	0.95	1.20 … 2.20	143.00	Logic	TO263-3-2
AUIRFP4004	Gen 10.2	1.70	195	0.40	2.00 … 4.00	220.00	Normal	TO-247
IPC100N04S5-1R7	OptiMOS™-5	1.70	100	1.30	2.20 … 3.40	62.00	Normal	TDSON-8-34 SuperSO8 single
IPB120N04S4-02	OptiMOS™-T2	1.80	120	0.95	2.00 … 4.00	103.00	Normal	TO263-3-2
AUIRFS8407	Gen 12.7	1.80	195	0.65	2.20 … 3.90	150.00	Normal	TO-263-3 (D^2PAK)
AUIRFSL8407	Gen 12.7	1.80	195	0.65	2.20 … 3.90	150.00	Normal	TO-262
IPD100N04S4L-02	OptiMOS™-T2	1.90	100	1.00	1.20 … 2.20	126.00	Logic	TO252-3 (DPAK)
IPI120N04S4-01	OptiMOS™-T2	1.90	120	0.80	2.00 … 4.00	135.00	Normal	TO262-3
AUIRF7737L2	Gen 10.7	1.90	156	1.80	2.00 … 4.00	89.00	Normal	DirectFET™2 L6
AUIRF8736M2	Gen 12.7	1.90	137	2.40	2.20 … 3.90	136.00	Normal	DirectFET™2 M4
IPC100N04S5L-1R9	OptiMOS™-5	1.90	100	1.50	1.20 … 2.00	61.00	Logic	TDSON-8-34 SuperSO8 single
IPC100N04S5-1R9	OptiMOS™-5	1.90	100	1.50	2.20 … 3.40	50.00	Normal	TDSON-8-34 SuperSO8 single
AUIRFR8405	Gen 12.7	1.98	100	0.92	2.20 … 3.90	103.00	Normal	TO-252 (DPAK)
AUIRFU8405	Gen 12.7	1.98	100	0.92	2.20 … 3.90	103.00	Normal	IPAK
IPD100N04S4-02	OptiMOS™-T2	2.00	100	1.00	2.00 … 4.00	91.00	Normal	TO252-3 (DPAK)
AUIRFB8407	Gen 12.7	2.00	195	0.65	2.20 … 3.90	150.00	Normal	TO-220
IPB90N04S4-02	OptiMOS™-T2	2.10	90	1.00	2.00 … 4.00	91.00	Normal	TO263-3-2
IPI120N04S4-02	OptiMOS™-T2	2.10	120	0.95	2.00 … 4.00	103.00	Normal	TO262-3
AUIRFSL8405	Gen 12.7	2.30	120	0.92	2.20 … 3.90	107.00	Normal	TO-262
IPD90N04S4-02	OptiMOS™-T2	2.40	90	1.00	2.00 … 4.00	91.00	Normal	TO252-3 (DPAK)
IPB100N04S4-H2	OptiMOS™-T2	2.40	100	1.30	2.00 … 4.00	70.00	Normal	TO263-3-2
IPI90N04S4-02	OptiMOS™-T2	2.50	90	1.00	2.00 … 4.00	91.00	Normal	TO262-3
AUIRFB8405	Gen 12.7	2.50	120	0.92	2.20 … 3.90	107.00	Normal	TO-220
IPC100N04S5L-2R6	OptiMOS™-5	2.60	100	2.00	1.20 … 2.00	41.00	Logic	TDSON-8-33 SuperSO8 single
IPI100N04S4-H2	OptiMOS™-T2	2.70	100	1.30	2.00 … 4.00	70.00	Normal	TO262-3
IPP100N04S4-H2	OptiMOS™-T2	2.70	100	1.30	2.00 … 4.00	70.00	Normal	TO220-3
IPZ40N04S5L-2R8	OptiMOS™-5	2.80	40	2.10	1.20 … 2.00	39.00	Logic	TSDSON-8
IPC100N04S5-2R8	OptiMOS™-5	2.80	100	2.00	2.20 … 3.40	34.00	Normal	TDSON-8-33 SuperSO8 single
AUIRF7736M2	Gen 10.7	3.00	108	2.40	2.00 … 4.00	72.00	Normal	DirectFET™2 M4
AUIRL7736M2	Gen 10.7	3.00	112	2.40	1.00 … 2.50	52.00	Logic	DirectFET™2 M4
IPZ40N04S5-3R1	OptiMOS™-5	3.10	40	2.10	2.20 … 3.40	31.00	Normal	TSDSON-8
AUIRFR8403	Gen 12.7	3.10	100	1.52	2.20 … 3.90	66.00	Normal	TO-252 (DPAK)

Automotive N-Channel MOSFETs

40 V (Trench) (cont'd)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRFU8403	Gen 12.7	3.10	100	1.52	2.20 … 3.90	66.00	Normal	IPAK
AUIRL1404Z	Gen 10.2	3.10	160	0.75	1.40 … 2.70	75.00	Logic	TO-220
AUIRL1404ZL	Gen 10.2	3.10	160	0.75	1.40 … 2.70	75.00	Logic	TO-262
AUIRL1404ZS	Gen 10.2	3.10	160	0.75	1.40 … 2.70	75.00	Logic	TO-263-3 (D^2PAK)
IPD90N04S4-03	OptiMOS™-T2	3.20	90	1.60	2.00 … 4.00	51.00	Normal	TO252-3 (DPAK)
IPB80N04S4-03	OptiMOS™-T2	3.30	80	1.60	2.00 … 4.00	51.00	Normal	TO263-3-2
AUIRFS8403	Gen 12.7	3.30	100	1.52	2.20 … 3.90	62.00	Normal	TO-263-3 (D^2PAK)
AUIRFSL8403	Gen 12.7	3.30	100	1.52	2.20 … 3.90	62.00	Normal	TO-262
IPC90N04S5L-3R3	OptiMOS™-5	3.30	90	2.40	1.20 … 2.00	30.00	Logic	TDSON-8-33 SuperSO8 single
IPC90N04S5-3R6	OptiMOS™-5	3.60	90	2.40	2.20 … 3.40	24.50	Normal	TDSON-8-33 SuperSO8 single
IPB120N04S4-04	OptiMOS™-T2	3.60	120	1.90	2.00 … 4.00	42.00	Normal	TO263-3-2
IPI80N04S4-03	OptiMOS™-T2	3.70	80	1.60	2.00 … 4.00	51.00	Normal	TO262-3
IPP80N04S4-03	OptiMOS™-T2	3.70	80	1.60	2.00 … 4.00	51.00	Normal	TO220-3
AUIRF1404Z	Gen 10.2	3.70	160	0.75	2.00 … 4.00	100.00	Normal	TO-220
AUIRF1404ZL	Gen 10.2	3.70	160	0.75	2.00 … 4.00	100.00	Normal	TO-262
AUIRF1404ZS	Gen 10.2	3.70	160	0.75	2.00 … 4.00	100.00	Normal	TO-263-3 (D^2PAK)
IPD90N04S4L-04	OptiMOS™-T2	3.80	90	2.10	1.20 … 2.00	46.00	Logic	TO252-3 (DPAK)
IPB80N04S4L-04	OptiMOS™-T2	4.00	80	2.10	1.20 … 2.00	46.00	Logic	TO263-3-2
IPD90N04S4-04	OptiMOS™-T2	4.10	90	2.10	2.00 … 4.00	33.00	Normal	TO252-3 (DPAK)
IPB80N04S4-04	OptiMOS™-T2	4.20	80	2.10	2.00 … 4.00	33.00	Normal	TO263-3-2
IPC70N04S5L-4R2	OptiMOS™-5	4.20	70	3.00	1.20 … 2.00	22.00	Logic	TDSON-8-33 SuperSO8 single
AUIRFR8401	Gen 12.7	4.25	100	1.90	2.20 … 3.90	42.00	Normal	TO-252 (DPAK)
AUIRFU8401	Gen 12.7	4.25	100	1.90	2.20 … 3.90	42.00	Normal	IPAK
IPI80N04S4L-04	OptiMOS™-T2	4.30	80	2.10	1.20 … 2.00	46.00	Logic	TO262-3
IPP80N04S4L-04	OptiMOS™-T2	4.30	80	2.10	1.20 … 2.00	46.00	Logic	TO220-3
IPC70N04S5-4R6	OptiMOS™-5	4.60	70	3.00	2.20 … 3.40	18.20	Normal	TDSON-8-33 SuperSO8 single
IPI80N04S4-04	OptiMOS™-T2	4.60	80	2.10	2.00 … 4.00	33.00	Normal	TO262-3
IPP80N04S4-04	OptiMOS™-T2	4.60	80	2.10	2.00 … 4.00	33.00	Normal	TO220-3
IPZ40N04S5L-4R8	OptiMOS™-5	4.80	40	3.50	1.20 … 2.00	22.00	Logic	TSDSON-8
AUIRF7734M2	Gen 10.7	4.90	72	3.30	2.00 … 4.00	48.00	Normal	DirectFET™2-Medium
IPZ40N04S5-5R4	OptiMOS™-5	5.40	40	3.50	2.20 … 3.40	17.00	Normal	TSDSON-8
IPC50N04S5L-5R5	OptiMOS™-5	5.50	50	3.60	1.20 … 2.00	17.00	Logic	TDSON-8-33 SuperSO8 single
IPC50N04S5-5R8	OptiMOS™-5	5.80	50	3.60	1.20 … 2.00	13.00	Normal	TDSON-8-33 SuperSO8 single
AUIRFN8459	Gen 12.7	2 x 5.90	50	3.00	2.20 … 3.90	40.00	Normal	PQFN 5x6 dual
IPB70N04S4-06	OptiMOS™-T2	6.20	70	2.60	2.00 … 4.00	24.50	Normal	TO263-3-2
IPI70N04S4-06	OptiMOS™-T2	6.50	70	2.60	2.00 … 4.00	24.50	Normal	TO262-3
IPP70N04S4-06	OptiMOS™-T2	6.50	70	2.60	2.00 … 4.00	24.50	Normal	TO220-3
AUIRL7732S2	Gen 10.7	6.60	58	3.50	1.00 … 2.50	24.00	Logic	DirectFET™2 SC
AUIRF7732S2	Gen 10.7	6.95	55	3.70	2.00 … 4.00	30.00	Normal	DirectFET™2 SC
IPG20N04S4L-07A	OptiMOS™-T2	2 x 7.20	20	2.30	1.20 … 2.20	39.00	Logic	TDSON-8-10 SuperSO8 dual
IPD50N04S4L-08	OptiMOS™-T2	7.30	50	3.30	1.20 … 2.00	23.00	Logic	TO252-3 (DPAK)
IPZ40N04S5L-7R4	OptiMOS™-5	7.40	40	4.40	1.20 … 2.00	13.00	Logic	TSDSON-8
IPG20N04S4-08A	OptiMOS™-T2	2 x 7.50	20	2.30	2.00 … 4.00	28.00	Normal	TDSON-8-10 SuperSO8 dual
IPI45N04S4L-08	OptiMOS™-T2	7.60	45	3.30	1.20 … 2.00	23.00	Logic	TO262-3
IPP45N04S4L-08	OptiMOS™-T2	7.60	45	3.30	1.20 … 2.00	23.00	Logic	TO220-3
IPD50N04S4-08	OptiMOS™-T2	7.90	50	3.30	2.00 … 4.00	17.20	Normal	TO252-3 (DPAK)
IPG20N04S4L-08A	OptiMOS™-T2	2 x 8.10	20	2.80	1.20 … 2.20	30.00	Logic	TDSON-8-10 SuperSO8 dual
IPZ40N04S5-8R4	OptiMOS™-5	8.40	40	4.40	2.20 … 3.40	10.30	Normal	TSDSON-8
IPD50N04S4-10	OptiMOS™-T2	9.30	50	3.70	2.00 … 4.00	14.00	Normal	TO252-3 (DPAK)
IPG20N04S4L-11A	OptiMOS™-T2	2 x 11.60	20	3.70	1.20 … 2.20	20.00	Logic	TDSON-8-10 SuperSO8 dual
IPG20N04S4-12A	OptiMOS™-T2	2 x 12.20	20	3.70	2.00 … 4.00	14.00	Normal	TDSON-8-10 SuperSO8 dual

55 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF3805L-7P	Gen 10.2	2.60	160	0.50	2.00 … 4.00	130	Normal	TO-263CA 7 pin
AUIRF3805S-7P	Gen 10.2	2.60	160	0.50	2.00 … 4.00	130	Normal	TO-263-7 (D^2PAK 7-leg)
AUIRF3805	Gen 10.2	3.30	160	0.50	2.00 … 4.00	190	Normal	TO-220
AUIRF3805L	Gen 10.2	3.30	160	0.50	2.00 … 4.00	190	Normal	TO-262
AUIRF1405ZL	Gen 10.2	4.90	150	0.65	2.00 … 4.00	120	Normal	TO-262
AUIRF1405ZS	Gen 10.2	4.90	150	0.65	2.00 … 4.00	120	Normal	TO-263-3 (D^2PAK)
AUIRF1405ZS-7P	Gen 10.2	4.90	120	0.65	2.00 … 4.00	150	Normal	TO-263-7 (D^2PAK 7-leg)
AUIRF3205Z	Gen 10.2	6.50	75	0.90	2.00 … 4.00	76	Normal	TO-220
AUIRFR48Z	Gen 10.2	11.00	42	1.64	2.00 … 4.00	40	Normal	TO-252 (DPAK)
AUIRFR2905Z	Gen 10.2	14.50	42	1.38	2.00 … 4.00	29	Normal	TO-252 (DPAK)
AUIRFR4105Z	Gen 10.2	24.50	30	3.12	2.00 … 4.00	18	Normal	TO-252 (DPAK)
AUIRLL024Z	Gen 10.2	60.00	5	n/a	2.00 … 4.00	7	Normal	SOT-223

60 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF7749L2	Gen 10.7	1.50	345	0.50	2.00 … 4.00	183.00	Normal	DirectFET™2 L8
IPB180N06S4-H1	OptiMOS™-T2	1.70	180	0.60	2.00 … 4.00	208.00	Normal	TO263-7-3
AUIRLS3036-7P	Gen 10.7	1.90	240	0.40	1.00 … 2.50	110.00	Logic	TO-263-7 (D^2PAK 7-leg)
IPB120N06S4-H1	OptiMOS™-T2	2.00	120	0.60	2.00 … 4.00	208.00	Normal	TO263-3-2
IPB120N06S4-02	OptiMOS™-T2	2.40	120	0.80	2.00 … 4.00	150.00	Normal	TO263-3-2
IPP120N06S4-H1	OptiMOS™-T2	2.40	120	0.60	2.00 … 4.00	208.00	Normal	TO220-3
AUIRLS3036	Gen 10.7	2.40	195	0.40	1.00 … 2.50	91.00	Logic	TO-263-3 (D^2PAK)
IPB120N06S4-03	OptiMOS™-T2	2.80	120	0.90	2.00 … 4.00	125.00	Normal	TO263-3-2
IPI120N06S4-02	OptiMOS™-T2	2.80	120	0.80	2.00 … 4.00	150.00	Normal	TO262-3
IPB90N06S4L-04	OptiMOS™-T2	3.40	90	1.00	1.20 … 2.20	133.00	Logic	TO263-3-2
IPI90N06S4L-04	OptiMOS™-T2	3.40	90	1.00	1.20 … 2.20	133.00	Logic	TO262-3
IPD100N06S4-03	OptiMOS™-T2	3.50	100	1.00	2.00 … 4.00	99.00	Normal	TO252-3 (DPAK)
IPD90N06S4L-03	OptiMOS™-T2	3.50	90	1.00	1.20 … 2.00	133.00	Logic	TO252-3 (DPAK)
IPB90N06S4-04	OptiMOS™-T2	3.70	90	1.00	1.20 … 2.20	99.00	Normal	TO263-3-2
IPD90N06S4-04	OptiMOS™-T2	3.80	90	1.00	2.00 … 4.00	99.00	Normal	TO252-3 (DPAK)
IPI90N06S4-04	OptiMOS™-T2	4.00	90	1.00	2.00 … 4.00	99.00	Normal	TO262-3
AUIRFS3306	Gen 10.7	4.20	120	0.65	2.00 … 4.00	85.00	Normal	TO-263-3 (D^2PAK)
IPD90N06S4L-05	OptiMOS™-T2	4.60	90	1.40	1.20 … 2.20	83.00	Logic	TO252-3 (DPAK)
IPB80N06S4L-05	OptiMOS™-T2	4.80	80	1.40	1.20 … 2.20	83.00	Logic	TO263-3-2
IPD90N06S4-05	OptiMOS™-T2	5.10	90	1.40	2.00… 4.00	62.00	Normal	TO252-3 (DPAK)
IPB80N06S4-05	OptiMOS™-T2	5.40	80	1.40	2.00 … 4.00	62.00	Normal	TO263-3-2
IPI80N06S4-05	OptiMOS™-T2	5.40	80	1.40	2.00 … 4.00	62.00	Normal	TO262-3
IPD90N06S4L-06	OptiMOS™-T2	6.30	90	1.90	1.20 … 2.20	58.00	Logic	TO252-3 (DPAK)
IPB80N06S4L-07	OptiMOS™-T2	6.40	80	1.90	1.20 … 2.20	58.00	Logic	TO263-3-2
IPI80N06S4L-07	OptiMOS™-T2	6.40	80	1.90	1.20 … 2.20	58.00	Logic	TO262-3
IPD90N06S4-07	OptiMOS™-T2	6.90	90	1.90	2.00 … 4.00	43.00	Normal	TO252-3 (DPAK)
AUIRF7648M2	Gen 10.7	7.00	68	2.40	3.00 … 4.90	35.00	Normal	DirectFET™2 M4
IPB80N06S4-07	OptiMOS™-T2	7.10	80	1.90	2.00 … 4.00	43.00	Normal	TO263-3-2
IPI80N06S4-07	OptiMOS™-T2	7.40	80	1.90	2.00 … 4.00	43.00	Normal	TO262-3
IPD50N06S4L-08	OptiMOS™-T2	7.80	50	2.10	1.20 … 2.20	49.00	Logic	TO252-3 (DPAK)
IPB45N06S4L-08	OptiMOS™-T2	7.90	45	2.10	1.20 … 2.20	49.00	Logic	TO263-3-2

Automotive N-Channel MOSFETs

60 V (Trench) (cont'd)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPI45N06S4L-08	OptiMOS™-T2	8.20	45	2.10	1.20 … 2.20	49.00	Logic	TO262-3
AUIRF1010EZS	Gen 10.2	8.50	75	1.11	2.00 … 4.00	58.00	Normal	TO-263-3 (D^2PAK)
IPD50N06S4-09	OptiMOS™-T2	9.00	50	2.10	2.00 … 4.00	36.00	Normal	TO252-3 (DPAK)
IPI45N06S4-09	OptiMOS™-T2	9.40	45	2.10	2.00 … 4.00	36.00	Normal	TO262-3
IPP45N06S4-09	OptiMOS™-T2	9.40	45	2.10	2.00 … 4.00	36.00	Normal	TO220-3
IPG20N06S4L-11	OptiMOS™-T2	2 x 11.20	20	2.30	1.20 … 2.20	41.00	Logic	TDSON-8-4 SuperSO8 dual
IPG20N06S4L-11A	OptiMOS™-T2	2 x 11.20	20	2.30	1.20 … 2.20	41.00	Logic	TDSON-8-10 SuperSO8 dual
IPD50N06S4L-12	OptiMOS™-T2	12.00	50	3.00	1.20 … 2.20	30.00	Logic	TO252-3 (DPAK)
IPG20N06S4L-14	OptiMOS™-T2	2 x 13.70	20	3.00	1.20 … 2.20	30.00	Logic	TDSON-8-4 SuperSO8 dual
IPG20N06S4L-14A	OptiMOS™-T2	2 x 13.70	20	3.00	1.20 … 2.20	30.00	Logic	TDSON-8-10 SuperSO8 dual
IPG20N06S4-15	OptiMOS™-T2	2 x 15.50	20	3.00	2.00 … 4.00	22.00	Normal	TDSON-8-4 SuperSO8 dual
IPG20N06S4-15A	OptiMOS™-T2	2 x 15.50	20	3.00	2.00 … 4.00	22.00	Normal	TDSON-8-10 SuperSO8 dual
AUIRFR3806	Gen 10.7	15.80	43	2.12	2.00 … 4.00	22.00	Normal	TO-252 (DPAK)
IPD30N06S4L-23	OptiMOS™-T2	23.00	30	4.20	1.20 … 2.20	16.10	Logic	TO252-3 (DPAK)
IPG20N06S4L-26	OptiMOS™-T2	2 x 26.00	20	4.50	1.20 … 2.20	15.00	Logic	TDSON-8-4 SuperSO8 dual
IPG20N06S4L-26A	OptiMOS™-T2	2 x 26.00	20	4.50	1.20 … 2.20	15.00	Logic	TDSON-8-10 SuperSO8 dual
IPD25N06S4L-30	OptiMOS™-T2	30.00	25	5.10	1.20 … 2.20	12.50	Logic	TO252-3 (DPAK)
AUIRF7640S2	Gen 10.7	36.00	21	5.00	3.00 … 5.00	7.30	Normal	DirectFET™2 SB

75 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF7759L2	Gen 10.7	2.30	160	1.20	2.00 … 4.00	200	Normal	DirectFET™2 L8
AUIRFS3107	Gen 10.7	3.00	195	0.40	2.00 … 4.00	160	Normal	TO-263-3 (D^2PAK)
IPP80N08S4-06	OptiMOS™-T2	5.50	80	1.00	2.00 … 4.00	70	Normal	TO220-3
AUIRFN7107	Gen 10.7	8.50	76	1.20	2.00 … 4.00	52	Normal	PQFN 5x6 mm

80 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IAUT300N08S5N012	OptiMOS™-5	1.20	300	0.40	2.20 … 3.80	178	Normal	HSOF-8 (HPSOF-8)
IPB180N08S4-02	OptiMOS™-T2	2.20	180	0.54	2.00 … 4.00	167	Normal	TO263-7-3
IPB120N08S4-03	OptiMOS™-T2	2.50	120	0.54	2.00 … 4.00	167	Normal	TO263-3-2
IPI120N08S4-03	OptiMOS™-T2	2.50	120	0.54	2.00 … 4.00	167	Normal	TO262-3
IPP120N08S4-03	OptiMOS™-T2	2.50	120	0.54	2.00 … 4.00	167	Normal	TO220-3
IAUT165N08S5N029	OptiMOS™-5	2.90	165	0.90	2.20 … 3.80	70	Normal	HSOF-8 (HPSOF-8)
IPB160N08S4-03	OptiMOS™-T2	3.20	160	0.72	2.00 … 4.00	112	Normal	TO263-7-3
IPB120N08S4-04	OptiMOS™-T2	4.10	120	0.84	2.00 … 4.00	95	Normal	TO263-3-2
IPI120N08S4-04	OptiMOS™-T2	4.10	120	0.84	2.00 … 4.00	95	Normal	TO262-3
IPP120N08S4-04	OptiMOS™-T2	4.10	120	0.84	2.00 … 4.00	95	Normal	TO220-3
IPB140N08S4-04	OptiMOS™-T2	4.20	140	0.90	2.00 … 4.00	80	Normal	TO263-7-3
IPP80N07S4-05	OptiMOS™-T2	5.20	80	1.00	2.00 … 4.00	69	Normal	TO220-3
IPD90N08S4-05	OptiMOS™-T2	5.30	90	1.00	2.00 … 4.00	68	Normal	TO252-3 (DPAK)
IPB80N08S4-06	OptiMOS™-T2	5.50	80	1.00	2.00 … 4.00	70	Normal	TO263-3-2
IPI80N08S4-06	OptiMOS™-T2	5.50	80	1.00	2.00 … 4.00	70	Normal	TO262-3
IPD50N08S4-13	OptiMOS™-T2	13.20	50	2.10	2.00 … 4.00	30	Normal	TO252-3 (DPAK)

100 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IAUT300N10S5N015	OptiMOS™-5	1.50	300	0.40	2.20 … 3.80	166.00	Normal	HSOF-8 (HPSOF-8)
IPB180N10S4-02	OptiMOS™-T2	2.50	180	0.50	2.00 … 3.50	156.00	Normal	TO263-7-3
IPB180N10S4-03	OptiMOS™-T2	3.30	180	0.60	2.00 … 3.50	108.00	Normal	TO263-7-3
IAUT150N10S5N035	OptiMOS™-5	3.50	150	0.90	2.20 … 3.80	67.00	Normal	HSOF-8 (HPSOF-8)
IPB120N10S4-03	OptiMOS™-T2	3.50	120	0.60	2.00 … 3.50	108.00	Normal	TO263-3-2
IPI120N10S4-03	OptiMOS™-T2	3.50	120	0.60	2.00 … 3.50	108.00	Normal	TO262-3
IPP120N10S4-03	OptiMOS™-T2	3.50	120	0.60	2.00 … 3.50	108.00	Normal	TO220-3
AUIRF7769L2	Gen 10.7	3.50	124	1.20	2.00 … 4.00	200.00	Normal	DirectFET™2 L8
AUIRLS4030-7P	Gen 10.7	3.90	190	0.40	1.00 … 2.50	93.00	Logic	TO-263-7 (D^2PAK 7-leg)
AUIRLS4030	Gen 10.7	4.30	180	0.40	1.00 … 2.50	87.00	Logic	TO-263-3 (D^2PAK)
AUIRF7669L2	Gen 10.7	4.40	114	1.20	3.00 … 5.00	81.00	Normal	DirectFET™2 L8
AUIRFP4110	Gen 10.7	4.50	120	0.40	2.00 … 4.00	150.00	Normal	TO-247
IPB120N10S4-05	OptiMOS™-T2	5.00	120	0.80	2.00 … 3.50	70.00	Normal	TO263-3-2
IPI120N10S4-05	OptiMOS™-T2	5.00	120	0.80	2.00 … 3.50	70.00	Normal	TO262-3
IPP120N10S4-05	OptiMOS™-T2	5.00	120	0.80	2.00 … 3.50	70.00	Normal	TO220-3
AUIRFS4310Z	Gen 10.7	6.00	120	0.60	2.00 … 4.00	120.00	Normal	TO-263-3 (D^2PAK)
IPD90N10S4L-06	OptiMOS™-T2	6.60	90	1.10	1.10 … 2.10	75.00	Logic	TO252-3 (DPAK)
IPD90N10S4-06	OptiMOS™-T2	6.70	90	1.10	2.00 … 3.50	52.00	Normal	TO252-3 (DPAK)
AUIRFS4310	Gen 10.2	7.00	75	0.50	2.00 … 4.00	170.00	Normal	TO-263-3 (D^2PAK)
AUIRFB4410	Gen 10.2	10.00	75	0.61	2.00 … 4.00	120.00	Normal	TO-220
AUIRL7766M2	Gen 10.7	10.00	51	2.40	1.00 … 2.50	44.00	Logic	DirectFET™2 M4
IPB70N10S3-12	OptiMOS™-T	11.30	70	1.20	2.00 … 4.00	51.00	Normal	TO263-3-2
IPI70N10S3-12	OptiMOS™-T	11.60	70	1.20	2.00 … 4.00	51.00	Normal	TO262-3
IPD60N10S4L-12	OptiMOS™-T2	12.00	60	1.60	1.10 … 2.10	38.00	Logic	TO252-3 (DPAK)
IPP70N10S3L-12	OptiMOS™-T	12.10	70	1.20	1.20 … 2.40	60.00	Logic	TO220-3
IPD60N10S4-12	OptiMOS™-T2	12.20	60	1.60	2.00 … 3.50	26.00	Normal	TO252-3 (DPAK)
AUIRFB4610	Gen 10.2	14.00	73	0.77	2.00 … 4.00	90.00	Normal	TO-220
AUIRFN7110	Gen 10.7	14.50	58	1.20	2.00 … 4.00	49.00	Normal	PQFN 5x6 mm

Automotive N-Channel MOSFETs

100 V (Trench) (cont'd)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB50N10S3L-16	OptiMOS™-T	15.40	70	1.50	1.20 … 2.40	49.00	Logic	TO263-3-2
IPI50N10S3L-16	OptiMOS™-T	15.70	50	1.50	1.20 … 2.40	49.00	Logic	TO262-3
IPP50N10S3L-16	OptiMOS™-T	15.70	50	1.50	1.20 … 2.40	49.00	Logic	TO220-3
AUIRF3710ZS	Gen 10.2	18.00	59	0.92	2.00 … 4.00	82.00	Normal	TO-263-3 (D^2PAK)
IPG20N10S4L-22A	OptiMOS™-T2	2 x 22.00	20	2.50	1.10 … 2.10	21.00	Logic	TDSON-8-10 SuperSO8 dual
IPD35N10S3L-26	OptiMOS™-T	24.00	35	2.10	1.20 … 2.40	39.00	Logic	TO252-3 (DPAK)
AUIRF540ZS	Gen 10.2	26.50	36	1.64	2.00 … 4.00	42.00	Normal	TO-263-3 (D^2PAK)
AUIRFR540Z	Gen 10.2	26.50	36	1.64	2.00 … 4.00	42.00	Normal	TO-252 (DPAK)
AUIRF540Z	Gen 10.2	26.50	36	1.64	2.00 … 4.00	43.00	Normal	TO-220
IPD30N10S3L-34	OptiMOS™-T	31.00	30	2.60	1.20 … 2.40	24.00	Logic	TO252-3 (DPAK)
AUIRF7647S2	Gen 10.7	31.00	24	3.70	3.00 … 5.00	14.00	Normal	DirectFET™2 SC
IPG20N10S4L-35A	OptiMOS™-T2	2 x 35.00	20	3.50	1.10 … 2.10	13.40	Logic	TDSON-8-10 SuperSO8 dual
IPG20N10S4-36A	OptiMOS™-T2	2 x 36.00	20	3.50	2.00 … 3.50	9.40	Normal	TDSON-8-10 SuperSO8 dual
IPG16N10S4-61A	OptiMOS™-T2	2 x 61.00	16	5.20	2.00 … 3.50	5.40	Normal	TDSON-8-10 SuperSO8 dual
IPG16N10S4L-61A	OptiMOS™-T2	2 x 61.00	16	5.20	1.10 … 2.10	8.50	Logic	TDSON-8-10 SuperSO8 dual
AUIRF7665S2	Gen 10.7	62.00	14	5.00	3.00 … 5.00	8.00	Normal	DirectFET™2 SB
AUIRFU120Z	Gen 10.2	190.00	9	4.28	2.00 … 4.00	7.00	Normal	IPAK

120 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB100N12S3-05	OptiMOS™-T	4.80	100	0.50	2.00 … 4.00	139	Normal	TO263-3
IPI100N12S3-05	OptiMOS™-T	5.10	100	0.50	2.00 … 4.00	139	Normal	TO262-3
IPP100N12S3-05	OptiMOS™-T	5.10	100	0.50	2.00 … 4.00	139	Normal	TO220-3
IPD70N12S3-11	OptiMOS™-T	11.10	70	1.20	2.00 … 4.00	51	Normal	TO252-3 (DPAK)
IPI70N12S3-11	OptiMOS™-T	11.30	70	1.20	2.00 … 4.00	51	Normal	TO262-3
IPP70N12S3-11	OptiMOS™-T	11.30	70	1.20	2.00 … 4.00	51	Normal	TO220-3
IPB70N12S3-11	OptiMOS™-T	11.30	70	1.20	2.00 … 4.00	51	Normal	TO263-3
IPD70N12S3L-12	OptiMOS™-T	11.50	70	1.20	1.20 … 2.40	59	Logic	TO252-3 (DPAK)
IPI70N12S3L-12	OptiMOS™-T	11.80	70	1.20	1.20 … 2.40	59	Logic	TO262-3
IPP70N12S3L-12	OptiMOS™-T	11.80	70	1.20	1.20 … 2.40	59	Logic	TO220-3
IPB70N12S3L-12	OptiMOS™-T	11.80	70	1.20	1.20 … 2.40	59	Logic	TO263-3
IPD50N12S3L-15	OptiMOS™-T	15.00	50	1.50	1.20 … 2.40	44	Logic	TO252-3 (DPAK)
IPI50N12S3L-15	OptiMOS™-T	15.40	50	1.50	1.20 … 2.40	44	Logic	TO262-3
IPP50N12S3L-15	OptiMOS™-T	15.40	50	1.50	1.20 … 2.40	44	Logic	TO220-3
IPB50N12S3L-15	OptiMOS™-T	15.40	50	1.50	1.20 … 2.40	44	Logic	TO263-3
IPD35N12S3L-24	OptiMOS™-T	24.00	35	2.10	1.20 … 2.40	30	Logic	TO252-3 (DPAK)
IPB35N12S3L-26	OptiMOS™-T	26.30	35	2.10	1.20 … 2.40	30	Logic	TO263-3
IPD30N12S3L-31	OptiMOS™-T	31.00	30	2.60	1.20 … 2.40	24	Logic	TO252-3 (DPAK)

150 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRFP4568	Gen 10.7	5.90	171	0.29	3.00 … 5.00	151	Normal	TO-247
AUIRFS4115-7P	Gen 10.7	11.80	105	0.40	3.00 … 5.00	73	Normal	TO-263-7 (D^2PAK 7-leg)
AUIRFS4115	Gen 10.7	12.10	99	0.40	3.00 … 5.00	77	Normal	TO-263-3 (D^2PAK)
AUIRFR4615	Gen 10.7	42.00	33	1.05	3.00 … 5.00	26	Normal	TO-252 (DPAK)
AUIRF7675M2	Gen 10.7	56.00	18	3.30	3.00 … 5.00	21	Normal	DirectFET™2 M2

200 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRFR4620	Gen 10.7	78	24	1.05	3.00 … 5.00	25	Normal	TO-252 (DPAK)

250 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB64N25S3-20	OptiMOS™ T	20	64.00	0.50	2.00 … 4.00	67	Normal	TO263-3-2
AUIRF7799L2	Gen 10.7	32	35.00	1.20	3.00 … 5.00	110	Normal	DirectFET™2 L8
IPB17N25S3-100	OptiMOS™ T	100	17.00	1.40	2.00 … 4.00	14	Normal	TO263-3-2
IPP17N25S3-100	OptiMOS™ T	100	17.00	1.40	2.00 … 4.00	14	Normal	TO220-3
AUIRFR4292	Gen 10.7	345	9.30	1.50	3.00 … 5.00	13	Normal	TO-252 (DPAK)
IPD5N25S3-430	OptiMOS™-T	430	5.00	3.70	2.00 … 4.00	5	Normal	TO252-3 (DPAK)

300 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRFP4409	Gen 10.7	69	38	0.44	3.00 … 5.00	83	Normal	TO-247
AUIRFS6535	Gen 10.7	185	19	0.71	3.00 … 5.00	38	Normal	TO-263-3 (D^2PAK)
AUIRFSL6535	Gen 10.7	185	19	0.71	3.00 … 5.00	38	Normal	TO-262

Automotive N-Channel MOSFETs

30 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPD50N03S2L-06	OptiMOS™	6.40	50.00	1.10	1.20 … 2.00	50	Logic	TO252-3 (DPAK)
AUIRL2203N	Gen 7	7.00	75.00	0.85	1.00 … 3.00	60	Logic	TO-220
IPD50N03S2-07	OptiMOS™	7.30	50.00	1.10	2.10 … 4.00	52	Normal	TO252-3 (DPAK)
IPD30N03S2L-10	OptiMOS™	10.00	30.00	1.50	1.20 … 2.00	31	Logic	TO252-3 (DPAK)
AUIRF7805Q	Gen 5	11.00	13.00	20.00	1.00 … 3.00	11	Logic	SO-8 (DSO-8)
IPD30N03S2L-20	OptiMOS™	20.00	30.00	2.50	1.20 … 2.00	14	Logic	TO252-3 (DPAK)
AUIRF7313Q	Gen 5	2 x 29.00	7.00	20.00	1.00 … 3.00	22	Logic	SO-8 (DSO-8)
AUIRF7303Q	Gen 5	2 x 50.00	4.90	20.00	1.00 … 3.00	14	Logic	SO-8 (DSO-8)

40 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB160N04S2L-03	OptiMOS™	2.70	160	0.50	1.20 … 2.00	230	Logic	TO263-7-3
IPB160N04S2-03	OptiMOS™	2.90	160	0.50	2.10 … 4.00	123	Normal	TO263-7-3
IPB100N04S2-04	OptiMOS™	3.30	100	0.50	2.10 … 4.00	172	Normal	TO263-3-2
IPB80N04S2-04	OptiMOS™	3.40	80	0.50	2.10 … 4.00	127	Normal	TO263-3-2
IPB80N04S2-H4	OptiMOS™	3.70	80	0.50	1.20 … 2.00	103	Normal	TO263-3-2
IPI80N04S2-04	OptiMOS™	3.70	80	0.50	2.10 … 4.00	170	Normal	TO262-3
AUIRL1404S	Gen 7	4.00	75	0.75	1.00 … 3.00	93	Logic	TO-263-3 (D^2PAK)
IPI80N04S2-H4	OptiMOS™	4.00	80	0.50	2.10 … 4.00	148	Normal	TO262-3
AUIRF1404S	Gen 7	4.00	75	0.75	2.00 … 4.00	131	Normal	TO-263-3 (D^2PAK)
AUIRF1404	Gen 7	4.00	75	0.75	2.00 … 4.00	131	Normal	TO-220
AUIRFR3504	Gen 7	9.20	87	1.09	2.00 … 4.00	48	Normal	TO-252 (DPAK)
AUIRF3504	Gen 7	9.20	87	1.09	2.00 … 4.00	48	Normal	TO-220
AUIRF7484Q	Gen 7	10.00	14	20.00	1.00 … 2.00	69	Logic	SO-8 (DSO-8)

50 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF7103Q	Gen 5	2 x 130	3	20.00	1.00 … 3.00	10	Logic	SO-8 (DSO-8)

55 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB100N06S2L-05	OptiMOS™	4.40	100	0.50	1.20 … 2.00	170.00	Logic	TO263-3-2
IPB100N06S2-05	OptiMOS™	4.70	100	0.50	2.10 … 4.00	130.00	Normal	TO263-3-2
IPB80N06S2L-H5	OptiMOS™	4.70	80	0.50	1.20 … 2.00	145.00	Logic	TO263-3-2
IPP100N06S2L-05	OptiMOS™	4.70	100	0.50	1.20 … 2.00	170.00	Logic	TO220-3
AUIRF2805	Gen 7	4.70	75	0.45	2.00 … 4.00	150.00	Normal	TO-220
IPB80N06S2-05	OptiMOS™	4.80	80	0.50	2.10 … 4.00	130.00	Normal	TO263-3-2
IPI80N06S2L-05	OptiMOS™	4.80	80	0.50	1.20 … 2.00	170.00	Logic	TO262-3
IPP80N06S2L-H5	OptiMOS™	5.00	80	0.50	1.20 … 2.00	145.00	Logic	TO220-3
AUIRFBA1405	Gen 5	5.00	174	0.45	2.00 … 4.00	170.00	Normal	TO-220
IPB80N06S2-H5	OptiMOS™	5.20	80	0.50	2.10 … 4.00	116.00	Normal	TO263-3-2
AUIRF1405	Gen 7	5.30	75	0.45	2.00 … 4.00	170.00	Normal	TO-220
AUIRFP1405	Gen 7	5.30	95	0.49	2.00 … 4.00	120.00	Normal	TO-247
IPP80N06S2-H5	OptiMOS™	5.50	80	0.50	2.10 … 4.00	116.00	Normal	TO220-3

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55 V (Planar) (cont'd)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB80N06S2L-06	OptiMOS™	6.00	80	0.60	1.20 … 2.00	114.00	Logic	TO263-3-2
IPB80N06S2-07	OptiMOS™	6.30	80	0.60	2.10 … 4.00	86.00	Normal	TO263-3-2
IPI80N06S2-07	OptiMOS™	6.60	80	0.60	2.10 … 4.00	86.00	Normal	TO262-3
IPP80N06S2-07	OptiMOS™	6.60	80	0.60	2.10 … 4.00	86.00	Normal	TO220-3
IPB80N06S2L-07	OptiMOS™	6.70	80	0.70	1.20 … 2.00	95.00	Logic	TO263-3-2
IPP80N06S2L-07	OptiMOS™	7.00	80	0.70	1.20 … 2.00	95.00	Logic	TO220-3
IPB80N06S2-08	OptiMOS™	7.70	80	0.70	2.10 … 4.00	72.00	Normal	TO263-3-2
IPI80N06S2-08	OptiMOS™	8.00	80	0.70	2.10 … 4.00	72.00	Normal	TO262-3
AUIRF3205	Gen 5	8.00	75	0.75	2.00 … 4.00	97.00	Normal	TO-220
AUIRF3305	Gen 5	8.00	140	0.45	2.00 … 4.00	100.00	Normal	TO-220
AUIRFP064N	Gen 5	8.00	110	0.75	2.00 … 4.00	113.00	Normal	TO-247
IPB80N06S2L-09	OptiMOS™	8.20	80	0.80	1.20 … 2.00	82.00	Logic	TO263-3-2
IPP80N06S2L-09	OptiMOS™	8.50	80	0.80	1.20 … 2.00	82.00	Logic	TO220-3
IPB80N06S2-09	OptiMOS™	8.80	80	0.80	2.10 … 4.00	60.00	Normal	TO263-3-2
IPP80N06S2-09	OptiMOS™	9.10	80	0.80	2.10 … 4.00	60.00	Normal	TO220-3
IPP80N06S2L-09	OptiMOS™	11.00	80	0.95	1.20 … 2.00	62.00	Logic	TO220-3
IPB77N06S2-12	OptiMOS™	11.70	77	0.95	2.10 … 4.00	45.00	Normal	TO263-3-2
IPP77N06S2-12	OptiMOS™	12.00	77	0.95	2.10 … 4.00	45.00	Normal	TO220-3
IPD50N06S2L-13	OptiMOS™	12.70	50	1.10	1.20 … 2.00	52.00	Logic	TO252-3 (DPAK)
IPD30N06S2L-13	OptiMOS™	13.00	30	1.10	1.20 … 2.00	52.00	Logic	TO252-3 (DPAK)
AUIRFZ48N	Gen 7	14.00	64	0.95	2.00 … 4.00	54.00	Normal	TO-220
IPD50N06S2-14	OptiMOS™	14.40	50	1.10	2.10 … 4.00	39.00	Normal	TO252-3 (DPAK)
IPD30N06S2-15	OptiMOS™	14.70	30	1.10	1.20 … 2.00	39.00	Normal	TO252-3 (DPAK)
AUIRFZ46NL	Gen 7	16.50	39	1.40	2.00 … 4.00	48.00	Normal	TO-262
AUIRFZ44N	Gen 7	17.50	49	1.50	2.00 … 4.00	42.00	Normal	TO-220
IPD30N06S2L-23	OptiMOS™	23.00	30	1.50	1.20 … 2.00	33.00	Logic	TO252-3 (DPAK)
IPD30N06S2-23	OptiMOS™	23.00	30	1.50	2.10 … 4.00	25.00	Normal	TO252-3 (DPAK)
AUIRLR2905	Gen 5	27.00	42	1.40	1.00 … 2.00	36.00	Logic	TO-252 (DPAK)
BSP603S2L	OptiMOS™	33.00	5.2	20.00	1.20 … 2.00	31.00	Logic	SOT223
IPD26N06S2L-35	OptiMOS™	35.00	30	2.20	1.20 … 2.00	10.00	Logic	TO252-3 (DPAK)
IPG20N06S2L-35	OptiMOS™	2 x 35.00	20	2.30	1.20 … 2.20	18.00	Logic	TDSON-8-4 SuperSO8 dual
IPG20N06S2L-35A	OptiMOS™	2 x 35.00	20	2.30	1.20 … 2.20	18.00	Logic	TDSON-8-10 SuperSO8 dual
IPD25N06S2-40	OptiMOS™	40.00	29	2.20	2.10 … 4.00	14.00	Normal	TO252-3 (DPAK)
AUIRFIZ34N	Gen 5	40.00	21	4.10	2.00 … 4.00	23.00	Normal	TO-220 FullPak
AUIRFZ34N	Gen 5	40.00	29	2.20	2.00 … 4.00	23.00	Normal	TO-220
AUIRLL2705	Gen 5	40.00	5	120.00	1.00 … 3.00	32.00	Logic	SOT-223
AUIRF7341Q	Gen 5	2 x 50.00	5.1	20.00	1.00 … 3.00	29.00	Logic	SO-8 (DSO-8)
IPG20N06S2L-50	OptiMOS™	2 x 50.00	20	2.90	1.20 … 2.20	12.40	Logic	TDSON-8-4 SuperSO8 dual
IPG20N06S2L-50A	OptiMOS™	2 x 50.00	20	2.90	1.20 … 2.20	12.40	Logic	TDSON-8-10 SuperSO8 dual
AUIRLZ24NS	Gen 5	60.00	18	3.30	1.00 … 2.00	7.00	Logic	TO-263-3 (D^2PAK)
IPD15N06S2L-64	OptiMOS™	64.00	19	3.20	1.20 … 2.00	11.00	Logic	TO252-3 (DPAK)
AUIRLL024N	Gen 5	65.00	4	120.00	1.00 … 2.00	7.00	Logic	SOT-223
AUIRLR024N	Gen 5	65.00	17	3.30	1.00 … 2.00	10.00	Logic	TO-252 (DPAK)
IPG20N06S2L-65	OptiMOS™	2 x 65.00	20	3.50	1.20 … 2.20	10.00	Logic	TDSON-8-4 SuperSO8 dual
IPG20N06S2L-65A	OptiMOS™	2 x 65.00	20	3.50	1.20 … 2.20	10.00	Logic	TDSON-8-10 SuperSO8 dual
AUIRFZ24NS	Gen 5	70.00	17	3.30	2.00 … 4.00	13.00	Normal	TO-263-3 (D^2PAK)
AUIRFL024N	Gen 5	75.00	3	120.00	2.00 … 4.00	12.00	Normal	SOT-223
IPD14N06S2-80	OptiMOS™	80.00	17	3.20	2.10 … 4.00	8.00	Normal	TO252-3 (DPAK)
AUIRLL014N	Gen 5	140.00	3	120.00	1.00 … 2.00	10.00	Logic	SOT-223
AUIRLR014N	Gen 5	140.00	10	5.30	1.00 … 3.00	5.00	Logic	TO-252 (DPAK)
AUIRFL014N	Gen 5	160.00	2	120.00	2.00 … 4.00	7.00	Normal	SOT-223

Automotive N-Channel MOSFETs

60 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF7478Q	Gen 7	26	7	20	1.00 … 3.00	21	Logic	SO-8 (DSO-8)

75 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRFP2907	Gen 7	4.50	90	0.32	2.00 … 4.00	410	Normal	TO-247
IPB100N08S2L-07	OptiMOS™	6.50	100	0.50	1.20 … 2.00	185	Logic	TO263-3-2
IPB100N08S2-07	OptiMOS™	6.80	100	0.50	2.10 … 4.00	153	Normal	TO263-3-2
IPB80N08S2L-07	OptiMOS™	6.80	80	0.50	1.20 … 2.00	186	Logic	TO263-3-2
IPP100N08S2L-07	OptiMOS™	6.80	100	0.50	1.20 … 2.00	182	Logic	TO220-3
IPB80N08S2-07	OptiMOS™	7.10	80	0.50	2.10 … 4.00	182	Normal	TO263-3-2
IPP100N08S2-07	OptiMOS™	7.10	100	0.50	2.10 … 4.00	144	Normal	TO220-3
IPI100N08S2-07	OptiMOS™	7.10	100	0.50	2.10 … 4.00	144	Normal	TO262-3
IPP80N08S2L-07	OptiMOS™	7.10	80	0.50	1.20 … 2.00	183	Logic	TO220-3
IPI80N08S2-07	OptiMOS™	7.40	80	0.50	2.10 … 4.00	144	Normal	TO262-3
AUIRF3007	Gen 7	12.60	75	0.74	2.00 … 4.00	89	Normal	TO-220
AUIRF2807	Gen 7	13.00	75	0.65	2.00 … 4.00	107	Normal	TO-220
IPD30N08S2L-21	OptiMOS™	20.50	30	1.10	1.20 … 2.00	43	Logic	TO252-3 (DPAK)
IPD30N08S2-22	OptiMOS™	21.50	30	1.10	2.10 … 4.00	44	Normal	TO252-3 (DPAK)
IPD22N08S2L-50	OptiMOS™	50.00	22	2.00	1.20 … 2.00	21	Logic	TO252-3 (DPAK)

100 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRLR3410	Gen 5	105	15	1.90	1.00 … 2.00	23	Logic	TO-252 (DPAK)
AUIRLR120N	Gen 5	185	11	3.10	1.00 … 2.00	13	Logic	TO-252 (DPAK)

150 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF3415	Gen 5	42	43	0.75	2.00 … 4.00	133	Normal	TO-220
AUIRF3315S	Gen 5	82	21	1.60	2.00 … 4.00	63	Normal	TO-263-3 (D^2PAK)

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Automotive P-Channel MOSFETs

30 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB80P03P4L-04	OptiMOS™-P2	4.10	-80	1.10	-2.00 … -1.00	125	Logic	TO263-3-2
IPP80P03P4L-04	OptiMOS™-P2	4.40	-80	1.10	-2.00 … -1.00	125	Logic	TO220-3
IPD90P03P4L-04	OptiMOS™-P2	4.50	-90	1.10	-2.00 … -1.00	100	Logic	TO252-3 (DPAK)
IPD90P03P4-04	OptiMOS™-P2	4.50	-90	1.10	-4.00 … -2.00	100	Normal	TO252-3 (DPAK)
IPB80P03P4-05	OptiMOS™-P2	4.70	-80	1.10	-4.00 … -2.00	100	Normal	TO263-3-2
IPD80P03P4L-07	OptiMOS™-P2	6.80	-80	1.70	-2.00 … -1.00	80	Logic	TO252-3 (DPAK)
IPB80P03P4L-07	OptiMOS™-P2	6.90	-80	1.70	-2.00 … -1.00	63	Logic	TO263-3-2
IPD50P03P4L-11	OptiMOS™-P2	10.50	-50	2.60	-2.00 … -1.00	42	Logic	TO252-3 (DPAK)
IPB45P03P4L-11	OptiMOS™-P2	10.80	-45	2.60	-2.00 … -1.00	42	Logic	TO263-3-2

40 V (Trench)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
IPB180P04P4L-02	OptiMOS™-P2	2.40	-100	1.00	-2.20 … -1.70	220	Logic	TO263-7-3
IPB180P04P4-03	OptiMOS™-P2	2.80	-100	1.00	-4.00 … -2.00	190	Normal	TO263-7-3
IPB120P04P4L-03	OptiMOS™-P2	3.00	-120	1.10	-2.20 … -1.70	180	Logic	TO263-3-2
IPP120P04P4L-03	OptiMOS™-P2	3.40	-120	1.10	-2.20 … -1.70	180	Logic	TO220-3
IPB120P04P4-04	OptiMOS™-P2	3.60	-120	1.10	-4.00 … -2.00	158	Normal	TO263-3-2
IPB80P04P4L-04	OptiMOS™-P2	4.20	-90	1.20	-2.20 … -1.70	135	Logic	TO263-3-2
IPD90P04P4L-04	OptiMOS™-P2	4.30	-90	1.20	-2.20 … -1.70	135	Logic	TO252-3 (DPAK)
IPD90P04P4-05	OptiMOS™-P2	4.70	-90	1.20	-4.00 … -2.00	118	Normal	TO252-3 (DPAK)
IPB80P04P4-05	OptiMOS™-P2	4.90	-80	1.20	-4.00 … -2.00	118	Normal	TO263-3-2
IPB80P04P4L-06	OptiMOS™-P2	6.40	-80	1.70	-2.20 … -1.70	71	Logic	TO263-3-2
IPD85P04P4L-06	OptiMOS™-P2	6.40	-85	1.70	-2.20 … -1.70	80	Logic	TO252-3 (DPAK)
IPB80P04P4-07	OptiMOS™-P2	7.30	-80	1.70	-4.00 … -2.00	71	Normal	TO263-3-2
IPD85P04P4-07	OptiMOS™-P2	7.30	-85	1.70	-4.00 … -2.00	69	Normal	TO252-3 (DPAK)
IPD70P04P4L-08	OptiMOS™-P2	7.80	-70	2.00	-2.20 … -1.70	63	Logic	TO252-3 (DPAK)
IPD70P04P4-09	OptiMOS™-P2	8.90	-70	2.00	-4.00 … -2.00	54	Normal	TO252-3 (DPAK)
IPB70P04P4-09	OptiMOS™-P2	9.30	-70	2.00	-4.00 … -2.00	54	Normal	TO263-3-2
IPD50P04P4L-11	OptiMOS™-P2	10.60	-50	2.60	-2.20 … -1.70	45	Logic	TO252-3 (DPAK)
IPD50P04P4-13	OptiMOS™-P2	12.60	-50	2.60	-4.00 … -2.00	39	Normal	TO252-3 (DPAK)

Automotive P-Channel MOSFETs

20 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF7207Q	Gen 5	60	-5.00	n/a	-1.60 … -0.70	15	Logic	SO-8 (DSO-8)
AUIRF7304Q	Gen 5	2 x 90	-4.30	n/a	-1.60 … -0.70	15	Logic	SO-8 (DSO-8)

30 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF7416Q	Gen 5	20	-10.00	n/a	-2.00 … -1.00	61	Logic	SO-8 (DSO-8)
AUIRF7316Q	Gen 5	2 x 58	-4.90	n/a	-3.00 … -1.00	23	Logic	SO-8 (DSO-8)

55 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF4905	Gen 5	20	-74.00	0.75	-4.00 … -2.00	120	Normal	TO-220
AUIRF4905L	Gen 5	20	-74.00	0.75	-4.00 … -2.00	120	Normal	TO-262
AUIRF4905S	Gen 5	20	-74.00	0.75	-4.00 … -2.00	120	Normal	TO-263-3 (D^2PAK)
AUIRFR5305	Gen 5	65	-28.00	1.40	-4.00 … -2.00	42	Normal	TO-252 (DPAK)
AUIRF9Z34N	Gen 5	100	-17.00	2.20	-4.00 … -2.00	23	Normal	TO-220
AUIRF7342Q	Gen 5	2 x 105	-3.40	n/a	-3.00 … -1.00	26	Logic	SO-8 (DSO-8)
AUIRFR5505	Gen 5	110	-18.00	2.20	-4.00 … -2.00	21	Normal	TO-252 (DPAK)
AUIRFR9024N	Gen 5	175	-11.00	3.30	-4.00 … -2.00	13	Normal	TO-252 (DPAK)

100 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF5210S	Gen 5	60	-38	0.75	-4.00 … -2.00	150	Normal	TO-263-3 (D^2PAK)
AUIRF9540N	Gen 5	117	-23	1.10	-4.00 … -2.00	65	Normal	TO-220
AUIRFR5410	Gen 5	205	-13	1.90	-4.00 … -2.00	39	Normal	TO-252 (DPAK)

150 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF6218S	Gen 5	150	-27	0.61	-5.00 … -3.00	71	Normal	TO-263-3 (D^2PAK)
AUIRF6215S	Gen 5	290	-13	1.40	-4.00 … -2.00	44	Normal	TO-263-3 (D^2PAK)
AUIRF6215	Gen 5	290	-13	1.40	-4.00 … -2.00	44	Normal	TO-220
AUIRFR6215	Gen 5	295	-13	1.40	-4.00 … -2.00	44	Normal	TO-252 (DPAK)

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Automotive N+P-Channel MOSFETs

30 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF7319Q	Gen 5	29/58	5.80/-4.90	1.00 … 3.00	22.00/23.00	Logic	SO-8 (DSO-8)
AUIRF7379Q	Gen 5	45/90	5.80/-4.30	1.00 … 3.00	25.00/25.00	Logic	SO-8 (DSO-8)
AUIRF7309Q	Gen 5	50/100	4.70/-3.50	1.00 … 3.00	25.00/25.00	Logic	SO-8 (DSO-8)
AUIRF9952Q	Gen 5	100/250	3.50/-2.30	1.00 … 3.00	6.90/6.10	Logic	SO-8 (DSO-8)

55 V (Planar)

Product name	Technology	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ logic level	Package
AUIRF7343Q	Gen 5	50/105	4.70/-3.40	1.00 … 3.00	24/26	Logic	SO-8 (DSO-8)

Small Signal MOSFETs

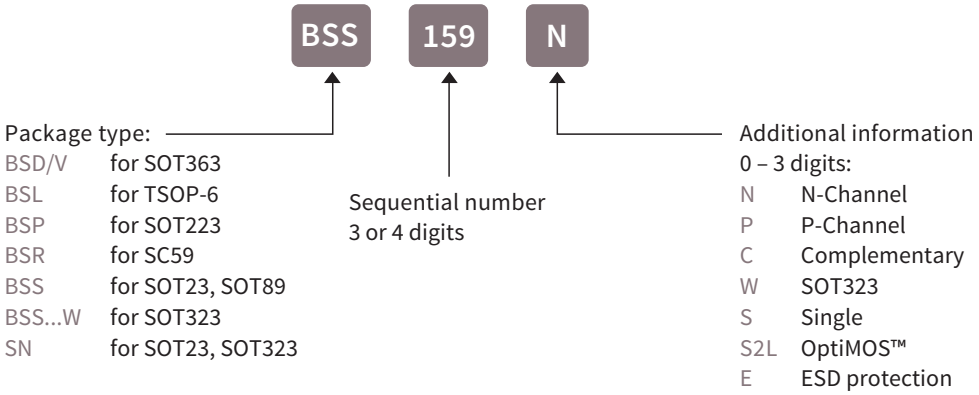
Infineon offers a full range of Small Signal MOSFETs qualified according AEC-Q101.

The portfolio includes

- Polarity: N-Channel enhancement, N-Channel depletion and P-Channel MOSFETs
- Voltage classes: -250 … 800 V
- V_{GS} rating: 10 V (normal level), 4.5 V (logic level), 2.5 V (super logic level), 1.8 V (ultra logic level)
- Packages: SOT223, SOT89, TSOP-6 (single and dual), SC59, SOT23, SOT323, SOT363 (single and dual)
- Configuration: single, dual, complementary (n+p pairs)
- Additional features: the products with names ending with “E” have an Integrated ESD protection

SC59 is an enhanced version of the SOT23: it’s footprint compatible with SOT23, but allows a bigger chip inside, therefore a lower $R_{DS(on)}$.

Naming system



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N-Channel MOSFETs

Voltage	Product name	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Technology	Package
20 V	BSR202N	21[1]	3.80	0.70 … 1.20	5.80	OptiMOS™2	SC59
	BSL802SN	22[2]	7.50	0.30 … 0.75	4.70	OptiMOS™2	TSOP-6/6
	BSL202SN	22[1]	7.50	0.70 … 1.20	5.80	OptiMOS™2	TSOP-6/6
	BSR802N	23[2]	3.70	0.30 … 0.75	4.70	OptiMOS™2	SC59
	BSL205N	50[1]	2.50	0.70 … 1.20	2.10	OptiMOS™2	TSOP-6/6 dual
	BSS205N	50[1]	2.50	0.70 … 1.20	2.10	OptiMOS™2	SOT23
	BSL806N	57[2]	2.30	0.30 … 0.75	1.70	OptiMOS™2	TSOP-6/6 dual
	BSS806N	57[2]	2.30	0.30 … 0.75	1.70	OptiMOS™2	SOT23
	BSL207N	70[1]	2.10	0.70 … 1.20	2.10	OptiMOS™2	TSOP-6/6 dual
	BSL214N	140[1]	1.50	0.70 … 1.20	0.80	OptiMOS™2	TSOP-6/6 dual
	BSS214N	140[1]	1.50	0.70 … 1.20	0.80	OptiMOS™2	SOT23
	BSS214NW	140[1]	1.50	0.70 … 1.20	0.80	OptiMOS™2	SOT323
	BSD214SN	140[1]	1.50	0.70 … 1.20	0.80	OptiMOS™2	SOT363
	BSS816NW	160[2]	1.40	0.30 … 0.75	0.60	OptiMOS™2	SOT323
	BSD816SN	160[2]	1.40	0.30 … 0.95	0.60	OptiMOS™2	SOT363
	BSD235N	350[1]	0.95	0.70 … 1.20	0.32	OptiMOS™2	SOT363 dual
	BSD840N	400[2]	0.88	0.30 … 0.75	0.26	OptiMOS™2	SOT363 dual
30 V	BSR302N	23	3.70	1.20 … 2.00	4.40	OptiMOS™2	SC59
	BSL302SN	25	7.10	1.20 … 2.00	4.40	OptiMOS™2	TSOP-6/6
	BSL306N	57	2.30	1.20 … 2.00	1.60	OptiMOS™2	TSOP-6/6 dual
	BSS306N	57	2.30	1.20 … 2.00	1.50	OptiMOS™2	SOT23
	BSS316N	160	1.40	1.20 … 2.00	0.60	OptiMOS™2	SOT23
	BSD316SN	160	1.40	1.20 … 2.00	0.60	OptiMOS™2	SOT363
55 V	BSS670S2L	650	0.54	1.20 … 2.00	1.70	OptiMOS™	SOT23
60 V	BSS606N	60	3.20	1.30 … 2.30	3.70	OptiMOS™3	SOT89
	BSL606SN	60	4.50	1.30 … 2.30	3.70	OptiMOS™3	TSOP-6/6
	BSR606N	60	2.30	1.30 … 2.30	3.70	OptiMOS™3	SC59
	BSP318S	90	2.60	1.20 … 2.00	14.00	SIPMOS™	SOT223
	BSP320S	120	2.90	2.10 … 4.00	9.70	SIPMOS™	SOT223
	BSP295	300	1.80	0.80 … 1.80	14.00	SIPMOS™	SOT223
	2N7002DW	3000	0.30	1.50 … 2.50	0.40	OptiMOS™	SOT363 dual
	BSS138N	3500	0.23	0.60 … 1.40	1.00	SIPMOS™	SOT23
	BSS138W	3500	0.28	0.60 … 1.40	1.00	SIPMOS™	SOT223
	SN7002N	5000	0.20	0.80 … 1.80	1.00	SIPMOS™	SOT23
	BSS7728N	5000	0.20	1.30 … 2.30	1.00	SIPMOS™	SOT23
	SN7002W	5000	0.23	0.80 … 1.80	1.00	SIPMOS™	SOT323
100 V	BSL372SN	220	2.00	0.80 … 1.80	9.50	OptiMOS™	TSOP-6/6
	BSP372N	230	1.80	0.80 … 1.80	9.50	OptiMOS™	SOT223
	BSL373SN	230	2.00	2.10 … 4.00	6.20	OptiMOS™	TSOP-6/6
	BSP373N	240	1.80	2.10 … 4.00	6.20	OptiMOS™	SOT223
	BSL296SN	460	1.40	0.80 … 1.80	2.70	OptiMOS™	TSOP-6/6
	BSP296N	600	1.20	0.80 … 1.80	4.50	OptiMOS™	SOT223
	BSS123N	6000	0.19	0.80 … 1.80	0.60	OptiMOS™	SOT23
	BSS119N	6000	0.19	1.30 … 2.30	0.60	OptiMOS™	SOT23
200 V	BSP297	1800	0.66	0.80 … 1.80	12.90	SIPMOS™	SOT223
240 V	BSP89	6000	0.35	0.80 … 1.80	4.30	SIPMOS™	SOT223
	BSP88	6000	0.35	0.60 … 1.40	4.50	SIPMOS™	SOT223
	BSS87	6000	0.26	0.80 … 1.80	3.70	SIPMOS™	SOT89
	BSS131	14,000	0.11	0.80 … 1.80	2.10	SIPMOS™	SOT23
400 V	BSP298	3000	0.50	2.10 … 4.00	–	SIPMOS™	SOT223
	BSP324	25,000	0.17	1.30 … 2.30	4.50	SIPMOS™	SOT223
500 V	BSP299	4000	0.40	2.10 … 4.00	–	SIPMOS™	SOT223

1) $R_{DS(on)}$ at 4.5 V 2) $R_{DS(on)}$ at 2.5 V

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Small Signal MOSFETs

N-Channel MOSFETs (cont'd)

Voltage	Product name	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Technology	Package
600 V	BSP125	45,000	0.120	1.30 … 2.30	4.40	SIPMOS™	SOT223
	BSS225	45,000	0.090	1.30 … 2.30	3.90	SIPMOS™	SOT89
	BSS127	500,000	0.021	1.40 … 2.60	1.40	SIPMOS™	SOT23
800 V	BSP300	20,000	0.190	2.00 … 4.00	–	SIPMOS™	SOT223

P-Channel MOSFETs

Voltage	Product name	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Technology	Package
-20 V	BSL207SP	41[1)]	-6.00	-1.20 … -0.60	-13.30	OptiMOS™ P	TSOP-6/6
	BSL211SP	67[1)]	-4.70	-1.20 … -0.60	-8.30	OptiMOS™ P	TSOP-6/6
	BSL215P	150[1)]	-1.50	-1.20 … -0.60	-3.55	OptiMOS™ P2	TSOP-6/6 dual
	BSS215P	150[1)]	-1.50	-1.20 … -0.50	-3.60	OptiMOS™ P2	SOT23
	BSV236SP	175[1)]	-1.50	-1.20 … -0.60	-3.80	OptiMOS™ P	SOT363
	BSS209PW	550[1)]	-0.63	-1.20 … -0.60	-1.00	OptiMOS™ P	SOT323
	BSS223PW	1,200[1)]	-0.39	-1.20 … -0.60	-0.50	OptiMOS™ P	SOT323
	BSD223P	1,200[1)]	-0.39	-1.20 … -0.60	-0.50	OptiMOS™ P	SOT363
-30 V	BSL303SPE	33	-6.30	-2.00 … -1.00	14.00	OptiMOS™ P3 + integrated ESD diode	TSOP-6/6
	BSL307SP	43	-5.50	-2.00 … -1.00	-23.40	OptiMOS™ P	TSOP-6/6 dual
	BSL305SPE	45	-5.30	-2.00 … -1.00	9.40		TSOP-6/6
	BSL308PE	80	-2.00	-2.00 … -1.00	-5.00	OptiMOS™ P3 + integrated ESD diode	TSOP-6/6 dual
	BSS308PE	80	-2.00	-2.00 … -1.00	-5.00	OptiMOS™ P3 + integrated ESD diode	SOT23
	BSL314PE	140	-1.50	-2.00 … -1.00	-2.90	OptiMOS™ P3 + integrated ESD diode	TSOP-6/6 dual
	BSS314PE	140	-1.50	-2.00 … -1.00	-2.90	OptiMOS™ P3 + integrated ESD diode	SOT23
	BSD314SPE	140	-1.50	-2.00 … -1.00	-2.90	OptiMOS™ P3 + integrated ESD diode	SOT363
	BSS315P	150	-1.50	-2.00 … -1.00	-2.30	OptiMOS™ P2	SOT23
-60 V	BSP613P	130	-2.90	-4.00 … -2.10	-22.00	SIPMOS™	SOT223
	BSP170P	300	-1.90	-4.00 … -2.10	-10.00	SIPMOS™	SOT223
-60 V	BSP171P	300	-1.90	-2.00 … -1.00	-13.00	SIPMOS™	SOT223
	BSP315P	800	-1.17	-2.00 … -1.00	-5.20	SIPMOS™	SOT223
	BSR315P	800	-0.62	-2.00 … -1.00	-4.00	SIPMOS™	SC59
	BSS83P	2000	-0.33	-2.00 … -1.00	-2.38	SIPMOS™	SOT23
	BSS84P	8000	-0.17	-2.00 … -1.00	-1.00	SIPMOS™	SOT23
	BSS84PW	8000	-0.15	-2.00 … -1.00	-1.00	SIPMOS™	SOT323
-100 V	BSP322P	800	-1.00	-2.00 … -1.00	-12.40	SIPMOS™	SOT223
	BSP321P	900	-0.98	-4.00… -2.10	-9.00	SIPMOS™	SOT223
	BSP316P	1800	-0.68	-2.00 … -1.00	-5.10	SIPMOS™	SOT223
	BSR316P	1800	-0.36	-2.00 … -1.00	-3.00	SIPMOS™	SC59

1) $R_{DS(on)}$ at 4.5 V

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P-Channel MOSFETs (cont'd)

Voltage	Product name	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Technology	Package
-250 V	BSR92P	11	-0.14	-2.00 … -1.00	-3.60	SIPMOS™	SC59
	BSP92P	12	-0.26	-2.00 … -1.00	-4.30	SIPMOS™	SOT223
	BSS192P	12	-0.19	-2.00 … -1.00	-4.90	SIPMOS™	SOT89
	BSP317P	4000	-0.43	-2.00 … -1.00	-11.60	SIPMOS™	SOT223

Complementary MOSFETs

Voltage	Product name	$R_{DS(on)}$ (max) @ V_{GS} = 10 V [mΩ]	I_D [A]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Technology	Package
20 V	BSL215C/n-ch	140[1)]	1.50	0.70 … 1.20	0.73	OptiMOS™2	TSOP-6/6
-20 V	BSL215C/p-ch	150[1)]	-1.50	-1.20 … -0.60	-3.00	OptiMOS™ P2	TSOP-6/6
20 V	BSD235C/n-ch	350[1)]	0.95	-1.20 … -0.60	0.34	OptiMOS™2	SOT363
-20 V	BSD235C/p-ch	1200[1)]	-0.53	0.70 … 1.20	-0.40	OptiMOS™ P2	SOT363
20 V	BSZ15DC02KD/n-ch	55[1)]	5.10	0.80 … 1.40	2.10	OptiMOS™2	TSDSON-8
-20 V	BSZ15DC02KD/p-ch	150[1)]	-3.20	-1.40 … -0.70	-3.00	OptiMOS™ P2	TSDSON-8
30 V	BSL316C/n-ch	160	1.40	1.20 … 2.00	0.60	OptiMOS™2	TSOP-6/6
-30 V	BSL316C/p-ch	150	-1.50	-2.00 … -1.00	-2.40	OptiMOS™ P2	TSOP-6/6
30 V	BSL308C/n-ch	57	2.30	1.20 … 2.00	1.50	OptiMOS™2	TSOP-6/6
-30 V	BSL308C/p-ch	80	-2.00	-2.00 … -1.00	-5.00	OptiMOS™ P3	TSOP-6/6

Depletion MOSFETs

Voltage	Product name	$R_{DS(on)}$ (max) @ V_{GS} = 10 V [mΩ]	I_D [A]	Q_G (typ) [nC]	Technology	Package
60 V	BSS159N	8,000	0.230	2.20	SIPMOS™	SOT23
100 V	BSS169	12,000	0.170	2.10	SIPMOS™	SOT23
200 V	BSP149	3,500	0.660	11.00	SIPMOS™	SOT223
240 V	BSP129	6,000	0.350	3.80	SIPMOS™	SOT223
250 V	BSS139	30,000	0.100	2.30	SIPMOS™	SOT23
400 V	BSP179	24,000	0.210	4.50	SIPMOS™	SOT223
600 V	BSP135	60,000	0.120	3.70	SIPMOS™	SOT223
	BSS126	700,000	0.021	1.40	SIPMOS™	SOT23

1) $R_{DS(on)}$ at 4.5 V

www.infineon.com/smallsignalmosfets
www.infineon.com/complementary
www.infineon.com/pchannel
www.infineon.com/depletion

600/650 V CoolMOS™ Power MOSFETs

600 V CoolMOS™ CPA and 650 V CoolMOS™ CFDA

Following the release of the first series of high-voltage automotive MOSFETs – the 600 V CoolMOS™ CPA series – Infineon has launched its second generation of market-leading, automotive-qualified, high-voltage MOSFETs, the 650 V CoolMOS™ CFDA series. Whereas the first generation of 600 V CoolMOS™ CPA series addresses the well-known attributes of high quality and reliability required by the automotive industry, the newer 650 V CoolMOS™ CFDA series also caters to special application needs with its integrated fast body diode. This fast body diode is the key for addressing resonant switching topologies, resulting in lower switching losses. The softer commutation behavior and consequent reduced EMI appearance gives the 650 V CoolMOS™ CFDA series a clear advantage in comparison with competitor parts. Furthermore, limited voltage overshoot during hard commutation of the body diode enables easier implementation of layout and design.

The basic 600 V CoolMOS™ CPA portfolio is complemented with the broad 650 V CoolMOS™ CFDA portfolio which provides all the benefits of a fast-switching Super-Junction MOSFET fulfilling the enhanced reliability requirements for automotive applications realized with special screening measures in front end and back end as well as the qualification compliant to AEC-Q100.

Therefore, the combination of both technologies – the 600 V CoolMOS™ CPA and the new 650 V CoolMOS™ CFDA technology – is the best choice for switching topologies in automotive applications.

Common key features CoolMOS™ "A"

- First 600 V/650 V automotive-qualified high-voltage technologies for the automotive market
- Compliant to AEC-Q101 standard

Key features 600 V CoolMOS™ CPA

- Lowest $R_{DS(on)}$ per package
- Lowest gate charge value Q_g

Key feature 650 V CoolMOS™ CFDA

- Limited voltage overshoot during hard commutation – self-limiting di/dt and dv/dt
- Low Q_{rr} at repetitive commutation on body diode and low C_{oss}

Applications 600 V CoolMOS™ CPA

- Hard switching topologies
- PFC boost stages in on-board charger
- Active clamp or 2-transistor forward in DC-DC converter

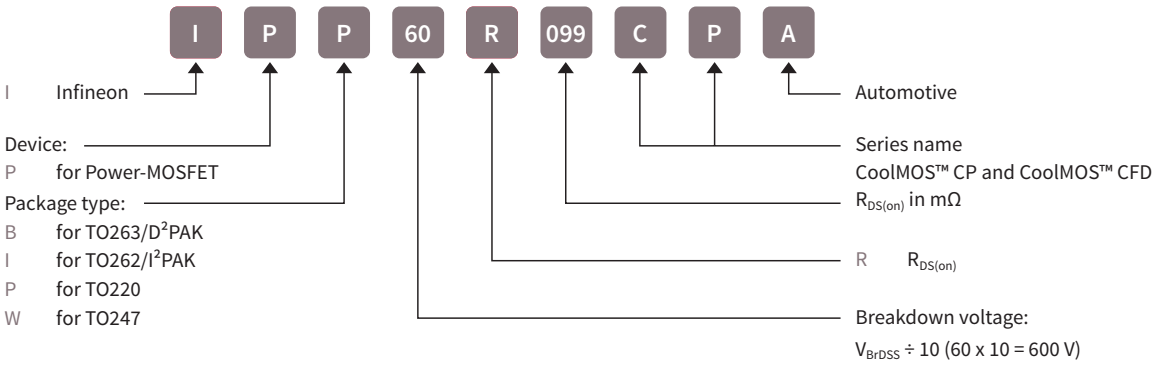
Application 650 V CoolMOS™ CFDA

- Resonant switching topologies
- LLC or full-bridge ZVS in DC-DC converter
- HID lamp

AEC Qualified

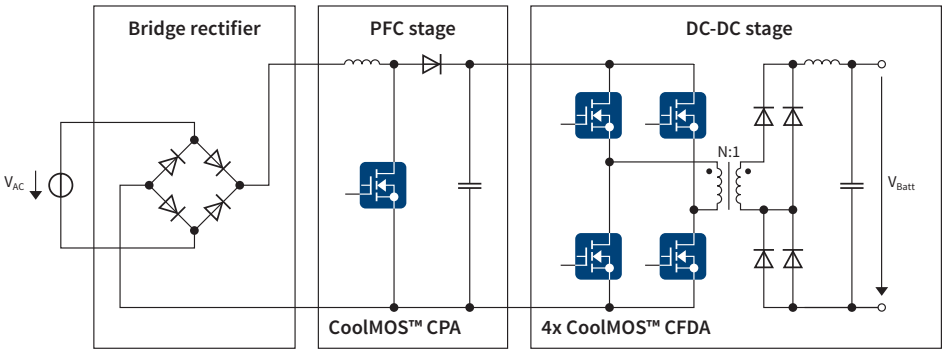
RoHS

Naming system



www.infineon.com/CFDA

Example for automotive topology using CoolMOS™ CFDA



On-board battery charger with ZVS phase shifted topology

600 V CoolMOS™ CPA product portfolio

Product name	$R_{DS(on)}$ @ T_J = 25°C V_{GS} = 10 V [mΩ]	I_D (max) @ T_J = 25°C [A]	I_{Dpuls} (max) [A]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	R_{thJC} (max) [K/W]	Package
IPB60R099CPA	105	31	93	-20 … 20	60	0.50	TO263-3-2
IPB60R199CPA	199	16	51	-20 … 20	32	0.90	TO263-3-2
IPB60R299CPA	299	11	34	-20 … 20	22	1.30	TO263-3-2
IPP60R099CPA	105	31	93	-20 … 20	60	0.50	TO220-3
IPW60R045CPA	45	60	230	-20 … 10	150	0.29	TO247-3
IPW60R075CPA	75	39	130	-20 … 20	87	0.40	TO247-3
IPW60R099CPA	105	31	93	-20 … 20	60	0.50	TO247-3
IPI60R099CPA	105	31	93	-20 … 20	60	0.50	TO262-3

650 V CoolMOS™ CFDA product portfolio

Product name	$R_{DS(on)}$ @ T_J = 25°C V_{GS} = 10 V [mΩ]	I_D (max) @ T_J = 25°C [A]	I_{Dpuls} (max) [A]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	R_{thJC} (max) [K/W]	Package
IPD65R420CFDA	420	8.70	27.00	3.50 … 4.50	32	1.50	TO252-3 (DPAK)
IPD65R660CFDA	660	6.00	17.00	3.50 … 4.50	20	2.00	TO252-3 (DPAK)
IPB65R110CFDA	110	31.20	99.60	3.50 … 4.50	118	0.45	TO263-3-2
IPB65R150CFDA	150	22.40	72.00	3.50 … 4.50	86	0.64	TO263-3-2
IPB65R190CFDA	190	17.50	57.20	3.50 … 4.50	68	0.83	TO263-3-2
IPB65R310CFDA	310	11.40	34.40	3.50 … 4.50	41	1.20	TO263-3-2
IPB65R660CFDA	660	6.00	17.00	3.50 … 4.50	20	2.00	TO263-3-2
IPP65R110CFDA	110	31.20	99.60	3.50 … 4.50	118	0.45	TO220-3
IPP65R150CFDA	150	22.40	72.00	3.50 … 4.50	86	0.64	TO220-3
IPP65R190CFDA	190	17.50	57.20	3.50 … 4.50	68	0.83	TO220-3
IPP65R310CFDA	310	11.40	34.40	3.50 … 4.50	41	1.20	TO220-3
IPP65R660CFDA	660	6.00	17.00	3.50 … 4.50	20	2.00	TO220-3
IPW65R048CFDA	48	63.30	228.00	3.50 … 4.50	270	0.25	TO247-3
IPW65R080CFDA	80	43.30	127.00	3.50 … 4.50	161	0.32	TO247-3
IPW65R110CFDA	110	31.20	99.60	3.50 … 4.50	118	0.45	TO247-3
IPW65R150CFDA	150	22.40	72.00	3.50 … 4.50	86	0.64	TO247-3
IPW65R190CFDA	190	17.50	57.20	3.50 … 4.50	68	0.83	TO247-3

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