

Automotive MOSFETs

Product Overview



A Powerful Combination

www.infineon.com/automotivemosfet



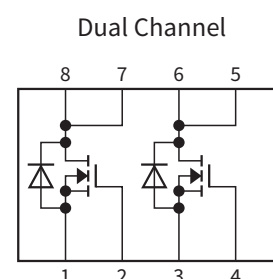
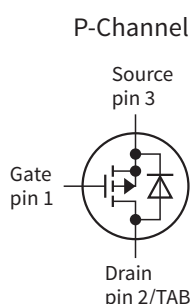
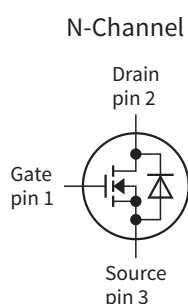
Content

Automotive MOSFETs	3
Small Signal MOSFETs	20
Power MOSFETs	24

Automotive MOSFETs

Infiniteon Automotive MOSFET Portfolio Offers Benchmark Quality, Wide Voltage Range and Diversified Package

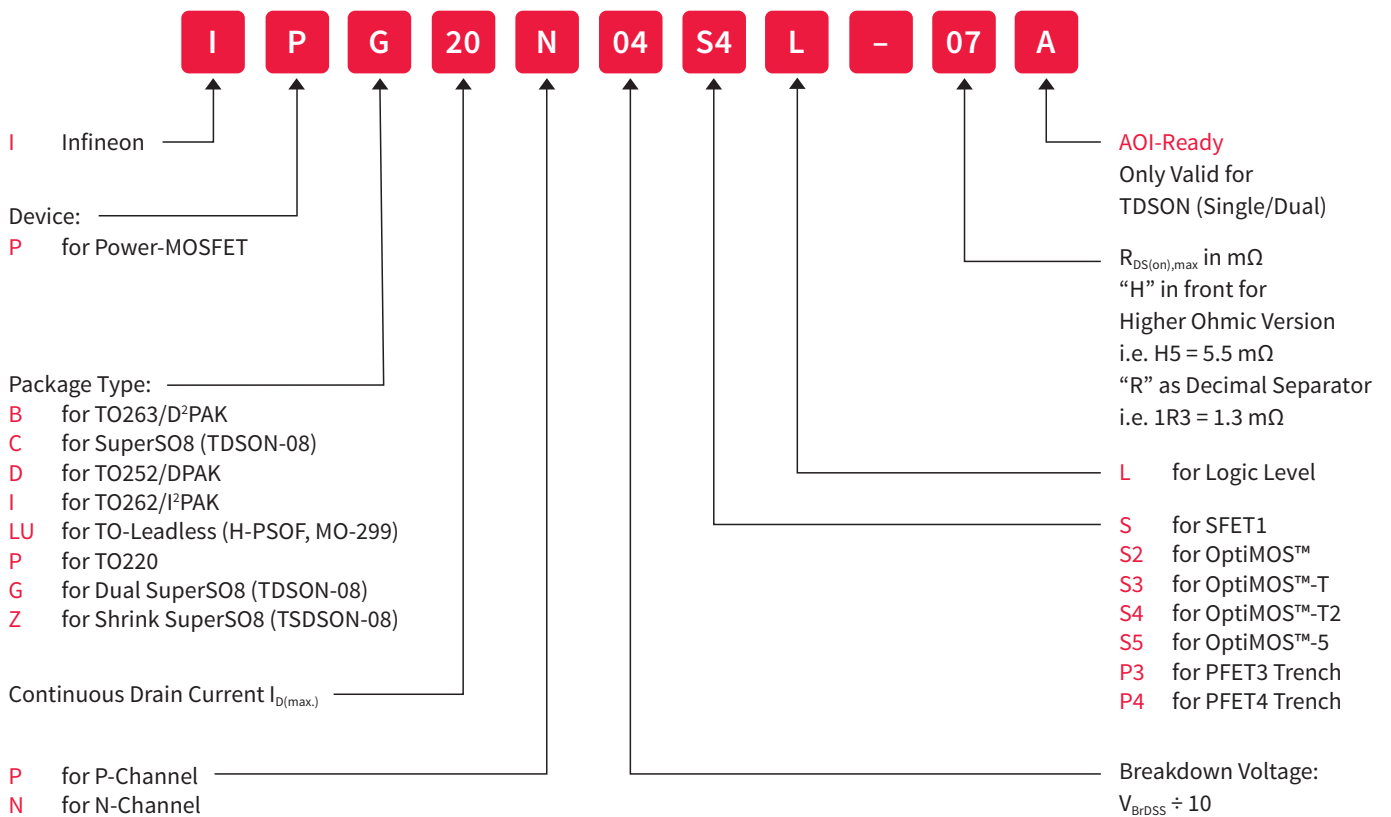
- Best in class $R_{DS(on)}$ performance for increased system efficiency
- Lowest switching and conduction power losses for increased thermal system reliability
- Benchmark for quality and reliability
- Wide voltage range from 24 V to 300 V for N-channel FET, and from 20 V to 150 V for P-channel FET
- Robust green package for easy process handling
- Diversified package portfolio caters to customers' needs for
 - Package size minimization (down to 11 mm² in S308)
 - High current capability (up to 300 A in TOLL)



Polarity	Voltage Class [V]	Trench MOSFET		Planar MOSFET	
		Infiniteon	Former IRF	Infiniteon	Former IRF
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	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				•

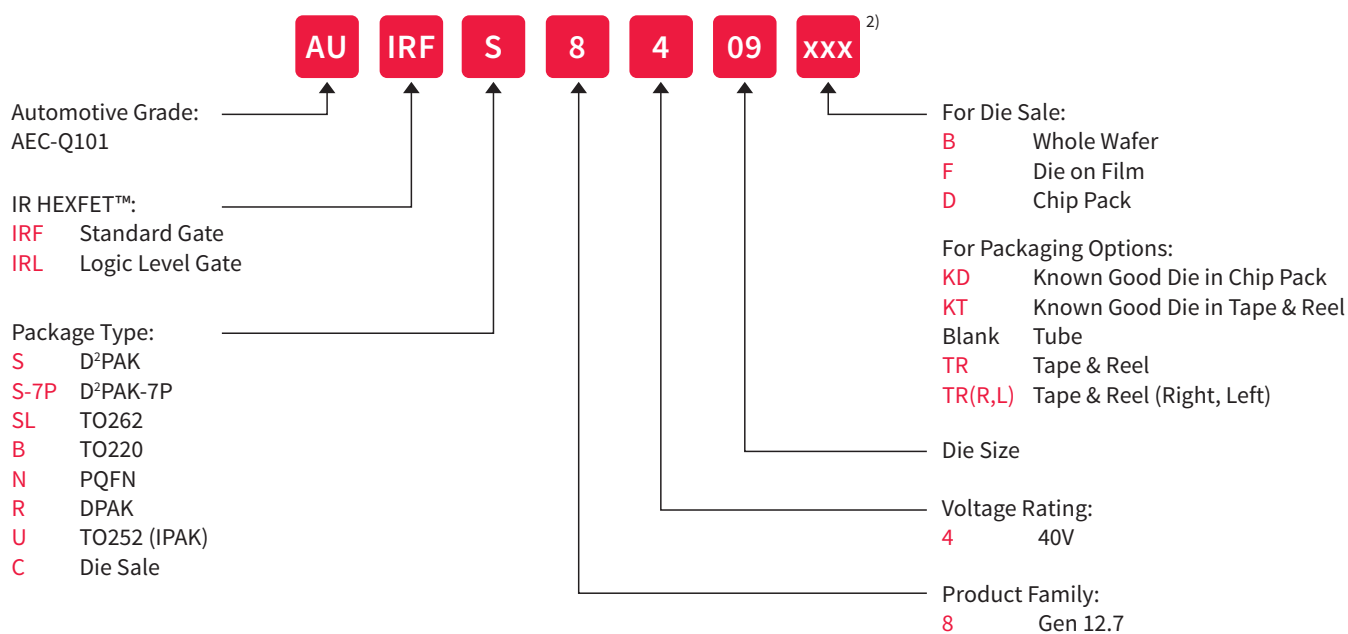


Infiniteon Automotive MOSFET Naming System





Former IRF COOLiRFET™ Naming System ¹⁾



1) Only applicable to Gen 12.7 technology.

For all other former IR technologies, refer to the respective product tables.

2) **WL** (suffix) = TO262 Wide Lead

Automotive N-Channel MOSFETs

24 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF1324S-7P	1.00	240	0.50	2.0 ... 4.0	180	Normal	Gen 10.2	TO-263-7
AUIRFP2602	1.25	180	0.40	2.0 ... 4.0	260	Normal	Gen 10.2	TO-247
AUIRF1324WL	1.30	240	0.50	2.0 ... 4.0	120	Normal	Gen 10.2	TO262 WideLead
AUIRF1324	1.50	195	0.50	2.0 ... 4.0	160	Normal	Gen 10.2	TO-220
AUIRF1324S	1.65	195	0.50	2.0 ... 4.0	160	Normal	Gen 10.2	TO-263-3

30 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB240N03S4L-R8	0.76	240	0.50	1.0 ... 2.2	290	Logic	OptiMOS™ -T2	TO263-7
IPB240N03S4L-R9	0.92	240	0.70	1.0 ... 2.2	230	Logic	OptiMOS™ -T2	TO263-7
IPB180N03S4L-H0	0.95	180	0.60	1.0 ... 2.2	230	Logic	OptiMOS™ -T2	TO263-7
IPB180N03S4L-01	1.05	180	0.80	1.0 ... 2.2	187	Logic	OptiMOS™ -T2	TO263-7
IPD90N03S4L-02	2.20	90	1.10	1.0 ... 2.2	110	Logic	OptiMOS™ -T2	TO252-3
IPB80N03S4L-02	2.40	80	1.10	1.0 ... 2.2	110	Logic	OptiMOS™ -T2	TO263-3
AUIRF2903ZL	2.40	160	0.65	2.0 ... 4.0	160	Normal	Gen 10.2	TO-262
AUIRF2903ZS	2.40	160	0.65	2.0 ... 4.0	160	Normal	Gen 10.2	TO-263-3
IPI80N03S4L-03	2.70	80	1.10	1.0 ... 2.2	110	Logic	OptiMOS™ -T2	TO262-3
IPP80N03S4L-03	2.70	80	1.10	1.0 ... 2.2	110	Logic	OptiMOS™ -T2	TO220-3
IPB120N03S4L-03	3.00	120	1.90	1.0 ... 2.2	55	Logic	OptiMOS™ -T2	TO263-3
IPD90N03S4L-03	3.30	90	1.60	1.0 ... 2.2	60	Logic	OptiMOS™ -T2	TO252-3
IPB80N03S4L-03	3.40	80	1.60	1.0 ... 2.2	60	Logic	OptiMOS™ -T2	TO263-3
IPD70N03S4L-04	4.30	70	2.20	1.0 ... 2.2	37	Logic	OptiMOS™ -T2	TO252-3
IPD50N03S4L-06	5.50	50	2.70	1.0 ... 2.2	24	Logic	OptiMOS™ -T2	TO252-3
IPD40N03S4L-08	8.00	40	3.60	1.0 ... 2.2	15	Logic	OptiMOS™ -T2	TO252-3
IPD30N03S4L-09	9.00	30	3.60	1.0 ... 2.2	15	Logic	OptiMOS™ -T2	TO252-3
IPD30N03S4L-14	13.60	30	4.90	1.0 ... 2.2	11	Logic	OptiMOS™ -T2	TO252-3
IPB22N03S4L-15	14.60	22	4.90	1.0 ... 2.2	11	Logic	OptiMOS™ -T2	TO263-3

40 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF8739L2	0.60	375	0.44	2.2 ... 3.9	375	Normal	Gen 12.7	DirectFET2-Large
AUIRFS8409-7P	0.75	240	0.40	2.2 ... 3.9	305	Normal	Gen 12.7	TO-263-7
IPLU300N04S4-R8	0.77	300	0.35	2.0 ... 4.0	221	Normal	OptiMOS™ -T2	H-PSOF-8
IPB240N04S4-R9	0.87	240	0.50	2.0 ... 4.0	220	Normal	OptiMOS™ -T2	TO263-7
IPB180N04S4-00	0.98	180	0.50	2.0 ... 4.0	220	Normal	OptiMOS™ -T2	TO263-7
IPB240N04S4-1R0	1.00	240	0.65	2.0 ... 4.0	170	Normal	OptiMOS™ -T2	TO263-7
IPB180N04S4L-H0	1.00	180	0.60	1.2 ... 2.2	239	Logic	OptiMOS™ -T2	TO263-7
AUIRF7739L2	1.00	270	1.20	2.0 ... 4.0	220	Normal	Gen 10.7	DirectFET2-Large
AUIRFS8408-7P	1.00	240	0.51	2.2 ... 3.9	210	Normal	Gen 12.7	TO-263-7
IPB180N04S4-H0	1.10	180	0.60	2.0 ... 4.0	173	Normal	OptiMOS™ -T2	TO263-7
IPLU300N04S4-1R1	1.15	300	0.50	2.0 ... 4.0	116	Normal	OptiMOS™ -T2	H-PSOF-8
IPB180N04S4L-01	1.20	180	0.80	1.2 ... 2.2	188	Logic	OptiMOS™ -T2	TO263-7

40 V (Trench) (cont'd)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRFS8409	1.20	195	0.40	2.2 ... 3.9	300	Normal	Gen 12.7	TO-263-3
AUIRFS8409	1.20	195	0.40	2.2 ... 3.9	300	Normal	Gen 12.7	TO-262
IPB180N04S4-01	1.30	180	0.80	2.0 ... 4.0	135	Normal	OptiMOS™ -T2	TO263-7
AUIRFB8409	1.30	195	0.40	2.2 ... 3.9	300	Normal	Gen 12.7	TO-220
AUIRFS8407-7P	1.30	240	0.65	2.2 ... 3.9	150	Normal	Gen 12.7	TO-263-7
AUIRF3004WL	1.40	240	0.40	2.0 ... 4.0	140	Normal	Gen 10.7	TO262 WideLead
AUIRLS3034-7P	1.40	240	0.40	1.0 ... 2.5	120	Logic	Gen 10.7	TO-263-7
IPB160N04S4L-H1	1.50	160	0.90	1.2 ... 2.2	146	Logic	OptiMOS™ -T2	TO263-7
IPI120N04S4-01	1.50	120	0.80	2.0 ... 4.0	135	Normal	OptiMOS™ -T2	TO262-3
IPB120N04S4-01	1.50	120	0.80	2.0 ... 4.0	135	Normal	OptiMOS™ -T2	TO263-3
IPB160N04S4-H1	1.60	160	0.90	2.0 ... 4.0	105	Normal	OptiMOS™ -T2	TO263-7
AUIRF7738L2	1.60	184	1.60	2.0 ... 4.0	129	Normal	Gen 10.7	DirectFET2-Large
IPLU250N04S4-1R7	1.70	250	0.80	2.0 ... 4.0	76	Normal	OptiMOS™ -T2	H-PSOF-8
IPB120N04S4L-02	1.70	120	0.95	1.2 ... 2.2	143	Logic	OptiMOS™ -T2	TO263-3
AUIRFP4004	1.70	195	0.40	2.0 ... 4.0	220	Normal	Gen 10.2	TO-247
IPB120N04S4-02	1.80	120	0.95	2.0 ... 4.0	103	Normal	OptiMOS™ -T2	TO263-3
AUIRFS8407	1.80	195	0.65	2.2 ... 3.9	150	Normal	Gen 12.7	TO-263-3
AUIRFS8407	1.80	195	0.65	2.2 ... 3.9	150	Normal	Gen 12.7	TO-262
IPI120N04S4-01	1.90	120	0.80	2.0 ... 4.0	135	Normal	OptiMOS™ -T2	TO262-3
IPP120N04S4-01	1.90	120	0.80	2.0 ... 4.0	135	Normal	OptiMOS™ -T2	TO220-3
AUIRF7737L2	1.90	156	1.80	2.0 ... 4.0	89	Normal	Gen 10.7	DirectFET2-Large
AUIRF8736M2	1.90	137	2.40	2.2 ... 3.9	136	Normal	Gen 12.7	DirectFET2-Medium
AUIRFR8405	1.98	100	0.92	2.2 ... 3.9	103	Normal	Gen 12.7	TO-252
AUIRFU8405	1.98	100	0.92	2.2 ... 3.9	103	Normal	Gen 12.7	IPAK
IPD100N04S4-02	2.00	100	1.00	2.0 ... 4.0	91	Normal	OptiMOS™ -T2	TO252-3
AUIRFB8407	2.00	195	0.65	2.2 ... 3.9	150	Normal	Gen 12.7	TO-220
IPB90N04S4-02	2.10	90	1.00	2.0 ... 4.0	91	Normal	OptiMOS™ -T2	TO263-3
IPI120N04S4-02	2.10	120	0.95	2.0 ... 4.0	103	Normal	OptiMOS™ -T2	TO262-3
AUIRFN8405	2.20	95	1.10	2.2 ... 3.9	103	Normal	Gen 12.7	PQFN 5x6
AUIRFS8405	2.30	120	0.92	2.2 ... 3.9	107	Normal	Gen 12.7	TO-263-3
AUIRFS8405	2.30	120	0.92	2.2 ... 3.9	107	Normal	Gen 12.7	TO-262
IPD90N04S4-02	2.40	90	1.00	2.0 ... 4.0	91	Normal	OptiMOS™ -T2	TO252-3
IPB100N04S4-H2	2.40	100	1.30	2.0 ... 4.0	70	Normal	OptiMOS™ -T2	TO263-3
IPC100N04S4-02	2.40	100	1.00	2.0 ... 4.0	79	Normal	OptiMOS™ -T2	TDSON-8
IPI90N04S4-02	2.50	90	1.00	2.0 ... 4.0	91	Normal	OptiMOS™ -T2	TO262-3
AUIRFB8405	2.50	120	0.92	2.2 ... 3.9	107	Normal	Gen 12.7	TO-220
IPI100N04S4-H2	2.70	100	1.30	2.0 ... 4.0	70	Normal	OptiMOS™ -T2	TO262-3
IPP100N04S4-H2	2.70	100	1.30	2.0 ... 4.0	70	Normal	OptiMOS™ -T2	TO220-3
IPZ40N04S5L-2R8 NEW!	2.80	40	2.10	1.2 ... 2.0	30	Logic	OptiMOS™ -5	TS2SON-8
AUIRF7736M2	3.00	108	2.40	2.0 ... 4.0	72	Normal	Gen 10.7	DirectFET2-Medium
AUIRL7736M2	3.00	112	2.40	1.0 ... 2.5	52	Logic	Gen 10.7	DirectFET2-Medium
IPZ40N04S5-3R1 NEW!	3.10	40	2.10	2.2 ... 3.4	21	Normal	OptiMOS™ -5	TS2SON-8
AUIRFR8403	3.10	100	1.52	2.2 ... 3.9	66	Normal	Gen 12.7	TO-252
AUIRFU8403	3.10	100	1.52	2.2 ... 3.9	66	Normal	Gen 12.7	IPAK
AUIRL1404Z	3.10	160	0.75	1.4 ... 2.7	75	Logic	Gen 10.2	TO-220
AUIRL1404ZL	3.10	160	0.75	1.4 ... 2.7	75	Logic	Gen 10.2	TO-262
AUIRL1404ZS	3.10	160	0.75	1.4 ... 2.7	75	Logic	Gen 10.2	TO-263-3
IPD90N04S4-03	3.20	90	1.60	2.0 ... 4.0	51	Normal	OptiMOS™ -T2	TO252-3
IPB80N04S4-03	3.30	80	1.60	2.0 ... 4.0	51	Normal	OptiMOS™ -T2	TO263-3
IPC80N04S4-03	3.30	80	1.50	2.0 ... 4.0	55	Normal	OptiMOS™ -T2	TDSON-8

Automotive N-Channel MOSFETs

40 V (Trench) (cont'd)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_g (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRFN8403	3.30	95	1.60	2.2 ... 3.9	65	Normal	Gen 12.7	PQFN56
AUIRFS8403	3.30	100	1.52	2.2 ... 3.9	62	Normal	Gen 12.7	TO-263-3
AUIRFS8403	3.30	100	1.52	2.2 ... 3.9	62	Normal	Gen 12.7	TO-262
IPB120N04S4-04	3.60	120	1.90	2.0 ... 4.0	42	Normal	OptiMOS™ -T2	TO263-3
IPI80N04S4-03	3.70	80	1.60	2.0 ... 4.0	51	Normal	OptiMOS™ -T2	TO262-3
IPP80N04S4-03	3.70	80	1.60	2.0 ... 4.0	51	Normal	OptiMOS™ -T2	TO220-3
AUIRF1404Z	3.70	160	0.75	2.0 ... 4.0	100	Normal	Gen 10.2	TO-220
AUIRF1404ZL	3.70	160	0.75	2.0 ... 4.0	100	Normal	Gen 10.2	TO-262
AUIRF1404ZS	3.70	160	0.75	2.0 ... 4.0	100	Normal	Gen 10.2	TO-263-3
IPD90N04S4L-04	3.80	90	2.10	1.2 ... 2.0	46	Logic	OptiMOS™ -T2	TO252-3
IPB80N04S4L-04	4.00	80	2.10	1.2 ... 2.0	46	Logic	OptiMOS™ -T2	TO263-3
IPD90N04S4-04	4.10	90	2.10	2.0 ... 4.0	33	Normal	OptiMOS™ -T2	TO252-3
IPB80N04S4-04	4.20	80	2.10	2.0 ... 4.0	33	Normal	OptiMOS™ -T2	TO263-3
AUIRFR8401	4.25	100	1.90	2.2 ... 3.9	42	Normal	Gen 12.7	TO-252
AUIRFU8401	4.25	100	1.90	2.2 ... 3.9	42	Normal	Gen 12.7	IPAK
IPI80N04S4L-04	4.30	80	2.10	1.2 ... 2.0	46	Logic	OptiMOS™ -T2	TO262-3
IPP80N04S4L-04	4.30	80	2.10	1.2 ... 2.0	46	Logic	OptiMOS™ -T2	TO220-3
IPI80N04S4-04	4.60	80	2.10	2.0 ... 4.0	33	Normal	OptiMOS™ -T2	TO262-3
IPP80N04S4-04	4.60	80	2.10	2.0 ... 4.0	33	Normal	OptiMOS™ -T2	TO220-3
AUIRFN8401	4.60	84	2.40	2.2 ... 3.9	44	Normal	Gen 12.7	PQFN56
IPZ40N04S5L-4R8 NEW!	4.80	40	3.50	1.2 ... 2.0	17	Logic	OptiMOS™ -5	TSDSON-8
AUIRF7734M2	4.90	72	3.30	2.0 ... 4.0	48	Normal	Gen 10.7	DirectFET2-Medium
IPD90N04S4-05	5.20	90	2.30	2.0 ... 4.0	33	Normal	OptiMOS™ -T2	TO252-3
IPZ40N04S5-5R4 NEW!	5.40	40	3.50	2.2 ... 3.4	12	Normal	OptiMOS™ -5	TSDSON-8
AUIRF4104	5.50	75	1.05	2.0 ... 4.0	68	Normal	Gen 10.2	TO-220
IPC60N04S4L-06	5.60	60	2.40	1.2 ... 2.2	35	Logic	OptiMOS™ -T2	TDSON-8
IPD75N04S4-06	5.90	75	2.60	2.0 ... 4.0	24.5	Normal	OptiMOS™ -T2	TO252-3
IPC60N04S4-06	6.00	60	2.40	2.0 ... 4.0	25	Normal	OptiMOS™ -T2	TDSON-8
IPB70N04S4-06	6.20	70	2.60	2.0 ... 4.0	24.5	Normal	OptiMOS™ -T2	TO263-3
IPI70N04S4-06	6.50	70	2.60	2.0 ... 4.0	24.5	Normal	OptiMOS™ -T2	TO262-3
IPP70N04S4-06	6.50	70	2.60	2.0 ... 4.0	24.5	Normal	OptiMOS™ -T2	TO220-3
AUIRL7732S2	6.60	58	3.50	1.0 ... 2.5	24	Logic	Gen 10.7	DirectFET2-Small
AUIRF7732S2	6.95	55	3.70	2.0 ... 4.0	30	Normal	Gen 10.7	DirectFET2-Small
IPD50N04S4L-08	7.30	50	3.30	1.2 ... 2.0	23	Logic	OptiMOS™ -T2	TO252-3
IPZ40N04S5L-7R4 NEW!	7.40	40	4.40	1.2 ... 2.0	10	Logic	OptiMOS™ -5	TSDSON-8
IPI45N04S4L-08	7.60	45	3.30	1.2 ... 2.0	23	Logic	OptiMOS™ -T2	TO262-3
IPP45N04S4L-08	7.60	45	3.30	1.2 ... 2.0	23	Logic	OptiMOS™ -T2	TO220-3
IPD50N04S4-08	7.90	50	3.30	2.0 ... 4.0	17.2	Normal	OptiMOS™ -T2	TO252-3
IPZ40N04S5-8R4 NEW!	8.40	40	4.40	2.2 ... 3.4	6.9	Normal	OptiMOS™ -5	TSDSON-8
IPD50N04S4-10	9.30	50	3.70	2.0 ... 4.0	14	Normal	OptiMOS™ -T2	TO252-3
AUIRFN8459	2 x 5.9	50	3.00	2.2 ... 3.9	40	Normal	Gen 12.7	PQFN56-Dual
IPG20N04S4L-07	2 x 7.2	20	2.30	1.2 ... 2.2	39.0	Logic	OptiMOS™	Dual TSDSON-8
IPG20N04S4L-07A	2 x 7.2	20	2.30	1.2 ... 2.2	39.0	Logic	OptiMOS™	Dual TSDSON-8
IPG20N04S4-08	2 x 7.5	20	2.30	2.0 ... 4.0	28.0	Normal	OptiMOS™	Dual TSDSON-8
IPG20N04S4-08A	2 x 7.5	20	2.30	2.0 ... 4.0	28.0	Normal	OptiMOS™	Dual TSDSON-8
IPG20N04S4L-08	2 x 8.1	20	2.80	1.2 ... 2.2	30.0	Logic	OptiMOS™	Dual TSDSON-8
IPG20N04S4L-08A	2 x 8.1	20	2.80	1.2 ... 2.2	30.0	Logic	OptiMOS™	Dual TSDSON-8
IPG20N04S4L-11	2 x 11.6	20	3.70	1.2 ... 2.2	20.0	Logic	OptiMOS™	Dual TSDSON-8
IPG20N04S4L-11A	2 x 11.6	20	3.70	1.2 ... 2.2	20.0	Logic	OptiMOS™	Dual TSDSON-8
IPG20N04S4-12	2 x 12.2	20	3.70	2.0 ... 4.0	14.0	Normal	OptiMOS™	Dual TSDSON-8
IPG20N04S4-12A	2 x 12.2	20	3.70	2.0 ... 4.0	14.0	Normal	OptiMOS™	Dual TSDSON-8

55 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF3805L-7P	2.60	240	0.40	2.0 ... 4.0	130	Normal	Gen 10.2	TO-262
AUIRF3805S-7P	2.60	240	0.40	2.0 ... 4.0	130	Normal	Gen 10.2	TO-263-7
AUIRF3805	3.30	160	0.50	2.0 ... 4.0	190	Normal	Gen 10.2	TO-220
AUIRF3805L	3.30	160	0.50	2.0 ... 4.0	190	Normal	Gen 10.2	TO-262
AUIRF1405ZL	4.90	150	0.65	2.0 ... 4.0	120	Normal	Gen 10.2	TO-262
AUIRF1405ZS	4.90	150	0.65	2.0 ... 4.0	120	Normal	Gen 10.2	TO-263-3
AUIRF1405ZS-7P	4.90	150	0.65	2.0 ... 4.0	120	Normal	Gen 10.2	TO-263-7
AUIRF3205Z	6.50	75	0.90	2.0 ... 4.0	76	Normal	Gen 10.2	TO-220
AUIRF1010Z	7.50	75	1.11	2.0 ... 4.0	63	Normal	Gen 10.2	TO-220
AUIRL3705Z	8.00	75	1.14	1.0 ... 3.0	40	Logic	Gen 10.2	TO-220
AUIRFR48Z	11.00	42	1.64	2.0 ... 4.0	40	Normal	Gen 10.2	TO-252
AUIRFZ48Z	11.00	61	1.64	2.0 ... 4.0	43	Normal	Gen 10.2	TO-220
AUIRLZ44Z	13.50	51	1.87	1.0 ... 3.0	24	Logic	Gen 10.2	TO-220
AUIRLZ44ZL	13.50	51	1.87	1.0 ... 3.0	24	Logic	Gen 10.2	TO-262
AUIRLZ44ZS	13.50	51	1.87	1.0 ... 3.0	24	Logic	Gen 10.2	TO-263-3
AUIRFZ44ZS	13.90	51	1.87	2.0 ... 4.0	29	Normal	Gen 10.2	TO-263-3
AUIRFZ44Z	13.90	51	1.87	2.0 ... 4.0	29	Normal	Gen 10.2	TO-220
AUIRFR2905Z	14.50	42	1.38	2.0 ... 4.0	29	Normal	Gen 10.2	TO-252
AUIRFR4105Z	24.50	30	3.12	2.0 ... 4.0	18	Normal	Gen 10.2	TO-252
AUIRLR024Z	58.00	16	4.28	1.0 ... 3.0	7	Logic	Gen 10.2	TO-252
AUIRLU024Z	58.00	16	4.28	1.0 ... 3.0	7	Logic	Gen 10.2	IPAK
AUIRLL024Z	60.00	5	NA	2.0 ... 4.0	7	Normal	Gen 10.2	SOT-223

60 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF7749L2	1.60	200	1.50	2.0 ... 4.0	200	Normal	Gen 10.7	DirectFET2-Large
IPB180N06S4-H1	1.70	180	0.60	2.0 ... 4.0	208	Normal	OptiMOS™ -T2	TO263-7-3
AUIRLS3036-7P	1.90	240	0.40	1.0 ... 2.5	110	Logic	Gen 10.7	TO-263-7
IPB120N06S4-H1	2.00	120	0.60	2.0 ... 4.0	208	Normal	OptiMOS™ -T2	TO263-3-2
IPB120N06S4-02	2.40	120	0.80	2.0 ... 4.0	150	Normal	OptiMOS™ -T2	TO263-3-2
IPP120N06S4-H1	2.40	120	0.60	2.0 ... 4.0	208	Normal	OptiMOS™ -T2	TO220-3-1
AUIRLS3036	2.40	195	0.40	1.0 ... 2.5	91	Logic	Gen 10.7	TO-263-3
IPB120N06S4-03	2.80	120	0.90	2.0 ... 4.0	125	Normal	OptiMOS™ -T2	TO263-3-2
IPI120N06S4-02	2.80	120	0.80	2.0 ... 4.0	150	Normal	OptiMOS™ -T2	TO262-3-1
IPB90N06S4L-04	3.40	90	1.00	1.2 ... 2.0	133	Logic	OptiMOS™ -T2	TO263-3-2
IPI90N06S4L-04	3.40	90	1.00	1.2 ... 2.0	133	Logic	OptiMOS™ -T2	TO262-3-1
IPD100N06S4-03	3.50	100	1.00	2.0 ... 4.0	99	Normal	OptiMOS™ -T2	TO252-3-11
IPD90N06S4L-03	3.50	90	1.00	1.2 ... 2.0	133	Logic	OptiMOS™ -T2	TO252-3-11
IPB90N06S4-04	3.70	90	1.00	2.0 ... 4.0	99	Normal	OptiMOS™ -T2	TO263-3-2
IPD90N06S4-04	3.80	90	1.00	2.0 ... 4.0	99	Normal	OptiMOS™ -T2	TO252-3-11
IPI90N06S4-04	4.00	90	1.00	2.0 ... 4.0	99	Normal	OptiMOS™ -T2	TO262-3-1
AUIRFS3306	4.20	120	0.65	2.0 ... 4.0	85	Normal	Gen 10.7	TO-263-3
IPD90N06S4L-05	4.60	90	1.40	1.2 ... 2.0	83	Logic	OptiMOS™ -T2	TO252-3-11
IPB80N06S4L-05	4.80	80	1.40	1.2 ... 2.0	83	Logic	OptiMOS™ -T2	TO263-3-2
IPD90N06S4-05	5.10	90	1.40	2.0 ... 4.0	62	Normal	OptiMOS™ -T2	TO252-3-11
IPB80N06S4-05	5.40	80	1.40	2.0 ... 4.0	62	Normal	OptiMOS™ -T2	TO263-3-2

Automotive N-Channel MOSFETs

60 V (Trench) (cont'd)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB80N06S4-07	7.10	80	1.90	2.0 ... 4.0	43	Normal	OptiMOST™ -T2	TO263-3-2
IPI80N06S4-05	5.40	80	1.40	2.0 ... 4.0	62	Normal	OptiMOST™ -T2	TO262-3-1
IPD90N06S4L-06	6.30	90	1.90	1.2 ... 2.0	58	Logic	OptiMOST™ -T2	TO252-3-11
IPB80N06S4L-07	6.40	80	1.90	1.2 ... 2.0	58	Logic	OptiMOST™ -T2	TO263-3-2
IPI80N06S4L-07	6.40	80	1.90	1.2 ... 2.0	58	Logic	OptiMOST™ -T2	TO262-3-1
IPD90N06S4-07	6.90	90	1.90	2.0 ... 4.0	43	Normal	OptiMOST™ -T2	TO252-3-11
AUIRF7648M2	7.00	68	2.40	3.0 ... 4.9	35	Normal	Gen 10.7	DirectFET2-Medium
IPI80N06S4-07	7.40	80	1.90	2.0 ... 4.0	43	Normal	OptiMOST™ -T2	TO262-3-1
IPD50N06S4L-08	7.80	50	2.10	1.2 ... 2.0	49	Logic	OptiMOST™ -T2	TO252-3-11
IPB45N06S4L-08	7.90	45	2.10	1.2 ... 2.0	49	Logic	OptiMOST™ -T2	TO263-3-2
IPI45N06S4L-08	8.20	45	2.10	1.2 ... 2.0	49	Logic	OptiMOST™ -T2	TO262-3-1
AUIRF1010EZS	8.50	75	1.11	2.0 ... 4.0	58	Normal	Gen 10.2	TO-263-3
IPD50N06S4-09	9.00	50	2.10	2.0 ... 4.0	36	Normal	OptiMOST™ -T2	TO252-3-11
IPI45N06S4-09	9.40	45	2.10	2.0 ... 4.0	36	Normal	OptiMOST™ -T2	TO263-3-1
IPP45N06S4-09	9.40	45	2.10	2.0 ... 4.0	36	Normal	OptiMOST™ -T2	TO220-3-1
IPD50N06S4L-12	12.00	50	3.00	1.2 ... 2.0	30	Logic	OptiMOST™ -T2	TO252-3-11
AUIRFZ44VZS	12.00	57	1.64	2.0 ... 4.0	43	Normal	Gen 10.2	TO-263-3
AUIRFR3806	15.80	43	2.12	2.0 ... 4.0	22	Normal	Gen 10.7	TO-252
AUIRFS3806	15.80	43	2.12	2.0 ... 4.0	22	Normal	Gen 10.7	TO-263-3
IPD30N06S4L-23	23.00	30	4.20	1.2 ... 2.0	16.1	Logic	OptiMOST™ -T2	TO252-3-11
IPD25N06S4L-30	30.00	25	5.10	1.2 ... 2.0	12.5	Logic	OptiMOST™ -T2	TO252-3-11
AUIRF7640S2	36.00	21	5.00	3.0 ... 5.0	7	Normal	Gen 10.7	DirectFET2-Small
IPG20N06S4L-11	2 x 11.1	20	2.30	1.2 ... 2.2	41	Logic	OptiMOST™ T2	TDSON-8-4
IPG20N06S4L-11A	2 x 11.1	20	2.30	1.2 ... 2.2	41	Logic	OptiMOST™ T2	TDSON-8-10
IPG20N06S4L-14	2 x 13.7	20	3.00	1.2 ... 2.2	30	Logic	OptiMOST™ T2	TDSON-8-4
IPG20N06S4L-14A	2 x 13.7	20	3.00	1.2 ... 2.2	30	Logic	OptiMOST™ T2	TDSON-8-10
IPG20N06S4-15	2 x 15.5	20	3.00	2.0 ... 4.0	22	Normal	OptiMOST™ T2	TDSON-8-4
IPG20N06S4-15A	2 x 15.5	20	3.00	2.0 ... 4.0	22	Normal	OptiMOST™ T2	TDSON-8-10
IPG20N06S4L-26	2 x 26.0	20	4.50	1.2 ... 2.2	20	Logic	OptiMOST™ T2	TDSON-8-4
IPG20N06S4L-26A	2 x 26.0	20	4.50	1.2 ... 2.2	20	Logic	OptiMOST™ T2	TDSON-8-10

75 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF7759L2	2.30	160	1.20	2.0 ... 4.0	200	Normal	Gen 10.7	DirectFET2-Large
AUIRFS3107	3.00	195	0.40	2.0 ... 4.0	160	Normal	Gen 10.7	TO-263-3
IPB80N07S4-05	5.20	80	1.00	2.0 ... 4.0	69	Normal	OptiMOST™ T2	TO263-3
IPI80N07S4-05	5.20	80	1.00	2.0 ... 4.0	69	Normal	OptiMOST™ T2	TO262-3
IPP80N08S4-06	5.50	80	1.00	2.0 ... 4.0	70	Normal	OptiMOST™ T2	TO220-3
AUIRF2907Z	4.50	75	0.50	2.0 ... 4.0	180	Normal	Gen 10.2	TO-220
AUIRFB3207	4.50	75	0.50	2.0 ... 4.0	180	Normal	Gen 10.2	TO-220
AUIRFP2907Z	4.50	75	0.50	2.0 ... 4.0	180	Normal	Gen 10.2	TO-247
AUIRFN7107	8.50	76	1.20	2.0 ... 4.0	52	Normal	Gen 10.7	PQFN56
AUIRFR2607Z	22.00	42	1.38	2.0 ... 4.0	34	Normal	Gen 10.2	TO-252

80 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB180N08S4-02	2.20	180	0.54	2.0 ... 4.0	167	Normal	OptiMOS™ T2	TO263-7
IPB120N08S4-03	2.50	120	0.54	2.0 ... 4.0	167	Normal	OptiMOS™ T2	TO263-3
IPI120N08S4-03	2.50	120	0.54	2.0 ... 4.0	167	Normal	OptiMOS™ T2	TO262-3
IPP120N08S4-03	2.50	120	0.54	2.0 ... 4.0	167	Normal	OptiMOS™ T2	TO220-3
IPB160N08S4-03	3.20	160	0.72	2.0 ... 4.0	112	Normal	OptiMOS™ T2	TO263-7
IPB120N08S4-04	4.10	120	0.84	2.0 ... 4.0	95	Normal	OptiMOS™ T2	TO263-3
IPI120N08S4-04	4.10	120	0.84	2.0 ... 4.0	95	Normal	OptiMOS™ T2	TO262-3
IPP120N08S4-04	4.10	120	0.84	2.0 ... 4.0	95	Normal	OptiMOS™ T2	TO220-3
IPB140N08S4-04	4.20	140	0.90	2.0 ... 4.0	80	Normal	OptiMOS™ T2	TO263-7
IPP80N07S4-05	5.20	80	1.00	2.0 ... 4.0	69	Normal	OptiMOS™ T2	TO220-3
IPD90N08S4-05	5.30	90	1.00	2.0 ... 4.0	68	Normal	OptiMOS™ T2	TO252-3
IPB80N08S4-06	5.50	80	1.00	2.0 ... 4.0	70	Normal	OptiMOS™ T2	TO263-3
IPI80N08S4-06	5.50	80	1.00	2.0 ... 4.0	70	Normal	OptiMOS™ T2	TO262-3
IPD50N08S4-13	13.20	50	2.10	2.0 ... 4.0	30	Normal	OptiMOS™ T2	TO252-3

100 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB180N10S4-02	2.50	180	0.50	2.0 ... 3.5	156	Normal	OptiMOS™ -T2	TO263-7
IPB180N10S4-03	3.30	180	0.60	2.0 ... 3.5	108	Normal	OptiMOS™ -T2	TO263-7
IPB120N10S4-03	3.50	120	0.60	2.0 ... 3.5	108	Normal	OptiMOS™ -T2	TO263-3
IPI120N10S4-03	3.50	120	0.60	2.0 ... 3.5	108	Normal	OptiMOS™ -T2	TO262-3
IPP120N10S4-03	3.50	120	0.60	2.0 ... 3.5	108	Normal	OptiMOS™ -T2	TO220-3
AUIRF7769L2	3.50	124	1.20	2.0 ... 4.0	200	Normal	Gen 10.7	DirectFET2-Large
AUIRSL4030-7P	3.90	190	0.40	1.0 ... 2.5	93	Logic	Gen 10.7	TO-263-7
AUIRSL4030	4.30	180	0.40	1.0 ... 2.5	87	Logic	Gen 10.7	TO-263-3
AUIRF7669L2	4.40	114	1.20	3.0 ... 5.0	81	Normal	Gen 10.7	DirectFET2-Large
AUIRFP4110	4.50	120	0.40	2.0 ... 4.0	150	Normal	Gen 10.7	TO-247
IPB100N10S3-05	4.80	100	0.50	2.0 ... 4.0	135	Normal	OptiMOS™ T	TO263-3
IPB120N10S4-05	5.00	120	0.80	2.0 ... 3.5	70	Normal	OptiMOS™ -T2	TO263-3
IPI120N10S4-05	5.00	120	0.80	2.0 ... 3.5	70	Normal	OptiMOS™ -T2	TO262-3
IPP120N10S4-05	5.00	120	0.80	2.0 ... 3.5	70	Normal	OptiMOS™ -T2	TO220-3
IPI100N10S3-05	5.10	100	0.50	2.0 ... 4.0	135	Normal	OptiMOS™ T	TO262-3
IPP100N10S3-05	5.10	100	0.50	2.0 ... 4.0	135	Normal	OptiMOS™ T	TO220-3
AUIRFS4310Z	6.00	120	0.60	2.0 ... 4.0	120	Normal	Gen 10.7	TO220-3
IPD90N10S4L-06	6.60	90	1.10	1.1 ... 2.1	75	Logic	OptiMOS™ -T2	TO252-3
IPD90N10S4-06	6.70	90	1.10	2.0 ... 3.5	52	Normal	OptiMOS™ -T2	TO252-3
AUIRFS4310	7.00	75	0.50	2.0 ... 4.0	170	Normal	Gen 10.2	TO-263-3
AUIRFB4410	10.00	75	0.61	2.0 ... 4.0	120	Normal	Gen 10.2	TO-220
AUIRL7766M2	10.00	51	2.40	1.0 ... 2.5	44	Logic	Gen 10.7	DirectFET2-Medium
IPD70N10S3-12	11.10	70	1.20	2.0 ... 4.0	51	Normal	OptiMOS™ T	TO252-3
IPB70N10S3-12	11.30	70	1.20	2.0 ... 4.0	51	Normal	OptiMOS™ T	TO263-3
IPD70N10S3L-12	11.50	70	1.20	1.2 ... 2.4	60	Logic	OptiMOS™ T	TO252-3
IPI70N10S3-12	11.60	70	1.20	2.0 ... 4.0	51	Normal	OptiMOS™ T	TO262-3

Automotive N-Channel MOSFETs

100 V (Trench) (cont'd)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB70N10S3L-12	11.80	70	1.20	1.2 ... 2.4	60	Logic	OptiMOS™ T	TO263-3
IPD60N10S4L-12	12.00	60	1.60	1.1 ... 2.1	38	Logic	OptiMOS™ -T2	TO252-3
IPI70N10S3L-12	12.10	70	1.20	1.2 ... 2.4	60	Logic	OptiMOS™ T	TO262-3
IPP70N10S3L-12	12.10	70	1.20	1.2 ... 2.4	60	Logic	OptiMOS™ T	TO220-3
IPD60N10S4-12	12.20	60	1.60	2.0 ... 3.5	26	Normal	OptiMOS™ -T2	TO252-3
AUIRFB4610	14.00	73	0.77	2.0 ... 4.0	90	Normal	Gen 10.2	TO-220
IPD50N10S3L-16	15.00	50	1.50	1.2 ... 2.4	49	Logic	OptiMOS™ T	TO252-3
IPB50N10S3L-16	15.40	70	1.50	1.2 ... 2.4	49	Logic	OptiMOS™ T	TO263-3
IPI50N10S3L-16	15.70	50	1.50	1.2 ... 2.4	49	Logic	OptiMOS™ T	TO262-3
IPP50N10S3L-16	15.70	50	1.50	1.2 ... 2.4	49	Logic	OptiMOS™ T	TO220-3
AUIRF3710Z	18.00	59	0.92	2.0 ... 4.0	82	Normal	Gen 10.2	TO-220
AUIRF3710ZS	18.00	59	0.92	2.0 ... 4.0	82	Normal	Gen 10.2	TO-263-3
IPD35N10S3L-26	24.00	35	2.10	1.2 ... 2.4	39	Logic	OptiMOS™ T	TO252-3
AUIRF540ZS	26.50	36	1.64	2.0 ... 4.0	42	Normal	Gen 10.2	TO-263-3
AUIRFR540Z	26.50	36	1.64	2.0 ... 4.0	42	Normal	Gen 10.2	TO-252
AUIRF540Z	26.50	36	1.64	2.0 ... 4.0	43	Normal	Gen 10.2	TO-220
IPD30N10S3L-34	31.00	30	2.60	1.2 ... 2.4	24	Logic	OptiMOS™ T	TO252-3
AUIRF7647S2	31.00	24	3.70	3.0 ... 5.0	14	Normal	Gen 10.7	DirectFET2-Small
AUIRF7665S2	62.00	14	5.00	3.0 ... 5.0	8	Normal	Gen 10.7	DirectFET2-Small
AUIRFR120Z	190.00	9	4.28	2.0 ... 4.0	7	Normal	Gen 10.2	TO-252
AUIRFU120Z	190.00	9	4.28	2.0 ... 4.0	7	Normal	Gen 10.2	IPAK
IPG20N10S4L-22	2 x 22.0	20	2.50	1.1 ... 2.1	21.0	Logic	OptiMOS™ T2	Dual TDSO-8
IPG20N10S4L-22A	2 x 22.0	20	2.50	1.1 ... 2.1	21.0	Logic	OptiMOS™ T2	Dual TDSO-8
IPG20N10S4L-35	2 x 35.0	20	3.50	1.1 ... 2.1	13.4	Logic	OptiMOS™ T2	Dual TDSO-8
IPG20N10S4L-35A	2 x 35.0	20	3.50	1.1 ... 2.1	13.4	Logic	OptiMOS™ T2	Dual TDSO-8
IPG20N10S4-36A	2 x 36.0	20	3.50	2.0 ... 3.5	9.4	Normal	OptiMOS™ T2	Dual TDSO-8
IPG16N10S4-61	2 x 61.0	16	5.20	2.0 ... 3.5	5.4	Normal	OptiMOS™ T2	Dual TDSO-8
IPG16N10S4-61A	2 x 61.0	16	5.20	2.0 ... 3.5	5.4	Normal	OptiMOS™ T2	Dual TDSO-8
IPG16N10S4L-61A	2 x 61.0	16	5.20	1.1 ... 2.1	8.5	Logic	OptiMOS™ T2	Dual TDSO-8

150 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRFP4568	5.90	171	0.29	3.0 ... 5.0	151	Normal	Gen 10.7	TO-247
AUIRFS4115-7P	11.80	105	0.40	3.0 ... 5.0	73	Normal	Gen 10.7	TO-263-7
AUIRFS4115	12.10	99	0.40	3.0 ... 5.0	77	Normal	Gen 10.7	TO-263-3
AUIRFR4615	42.00	33	1.05	3.0 ... 5.0	26	Normal	Gen 10.7	TO-252
AUIRFP7675M2	56.00	18	3.30	3.0 ... 5.0	21	Normal	Gen 10.7	DirectFET2-Medium

200 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRFR4620	78	24	1.05	3.0 ... 5.0	25	Normal	Gen 10.7	TO-252

250 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB64N25S3-20	20	64.0	0.50	2.0 ... 4.0	67	Normal	OptiMOS™ T	TO263-3
AUIRFP7799L2	32	35.0	1.20	3.0 ... 5.0	110	Normal	Gen 10.7	DirectFET2-Large
IPB17N25S3-100	100	17.0	1.40	2.0 ... 4.0	14	Normal	OptiMOS™ T	TO263-3
IPP17N25S3-100	100	17.0	1.40	2.0 ... 4.0	14	Normal	OptiMOS™ T	TO220-3
AUIRFR4292	345	9.3	1.50	3.0 ... 5.0	13	Normal	Gen 10.7	TO-252
IPD5N25S3-430	430	5.0	3.70	2.0 ... 4.0	5	Normal	OptiMOS™ T	TO252-3

300 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRFP4409	69	38	0.44	3.0 ... 5.0	83	Normal	Gen 10.7	TO-247
AUIRFS6535	185	19	0.71	3.0 ... 5.0	38	Normal	Gen 10.7	TO-263-3
AUIRFSL6535	185	19	0.71	3.0 ... 5.0	38	Normal	Gen 10.7	TO-262

Automotive N-Channel MOSFETs

30 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPD50N03S2L-06	6.40	50	1.10	1.2 ... 2.0	50	Logic	OptiMOS™	TO252-3
AUIRL2203N	7.00	75	0.85	1.0 ... 3.0	60	Logic	Gen 7	TO-220
IPD50N03S2-07	7.30	50	1.10	2.1 ... 4.0	52	Normal	OptiMOS™	TO252-3
IPD30N03S2L-10	10.00	30	1.50	1.2 ... 2.0	31	Logic	OptiMOS™	TO252-3
AUIRF7805Q	11.00	13	20.00	1.0 ... 3.0	11	Logic	Gen 5	SO8
IPD30N03S2L-20	20.00	30	2.50	1.2 ... 2.0	14	Logic	OptiMOS™	TO252-3
AUIRF7313Q	2 x 29	7	20.00	1.0 ... 3.0	22	Logic	Gen 5	SO8
AUIRF7303Q	2 x 50	4.9	20.00	1.0 ... 3.0	14	Logic	Gen 5	SO8

40 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB160N04S2L-03	2.70	160	0.50	1.2 ... 2.0	230	Logic	OptiMOS™	TO263-7
IPB160N04S2-03	2.90	160	0.50	2.1 ... 4.0	123	Normal	OptiMOS™	TO263-7
AUIRL1404S	3.10	75	0.75	1.0 ... 3.0	93	Logic	Gen 7	TO-263-3
IPB100N04S2-04	3.30	100	0.50	2.1 ... 4.0	172	Normal	OptiMOS™	TO263-3
IPB80N04S2-04	3.40	80	0.50	2.1 ... 4.0	127	Normal	OptiMOS™	TO263-3
IPB80N04S2-H4	3.70	80	0.50	1.2 ... 2.0	103	Normal	OptiMOS™	TO263-3
IPI80N04S2-04	3.70	80	0.50	2.1 ... 4.0	170	Normal	OptiMOS™	TO262-3
IPI80N04S2-H4	4.00	80	0.50	2.1 ... 4.0	148	Normal	OptiMOS™	TO262-3
AUIRF1404S	4.00	75	0.75	2.0 ... 4.0	131	Normal	Gen 7	TO-263-3
AUIRF1404	4.00	75	0.75	2.0 ... 4.0	131	Normal	Gen 7	TO-220
AUIRFR3504	9.20	87.0	1.09	2.0 ... 4.0	48	Normal	Gen 7	TO-252
AUIRF3504	9.20	87	1.09	2.0 ... 4.0	48	Normal	Gen 7	TO-220
AUIRF7484Q	10.00	14	20.00	1.0 ... 2.0	69	Logic	Gen 7	SO8

50 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF7103Q	2 x 130	3	20.00	1.0 ... 3.0	10	Logic	Gen 5	SO8

55 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB80N06S2L-07	3.70	80	0.70	1.2 ... 2.0	95	Logic	OptiMOS™	TO263-3
IPB100N06S2L-05	4.40	100	0.50	1.2 ... 2.0	170	Logic	OptiMOS™	TO263-3
IPB80N06S2L-05	4.50	80	0.50	1.2 ... 2.0	170	Logic	OptiMOS™	TO263-3
IPB100N06S2-05	4.70	100	0.50	2.1 ... 4.0	130	Normal	OptiMOS™	TO263-3
IPB80N06S2L-H5	4.70	80	0.50	1.2 ... 2.0	145	Logic	OptiMOS™	TO263-3
IPP100N06S2L-05	4.70	100	0.50	1.2 ... 2.0	170	Logic	OptiMOS™	TO220-3
AUIRF2805	4.70	75	0.45	2.0 ... 4.0	150	Normal	Gen 7	TO-220
IPB80N06S2-05	4.80	80	0.50	2.1 ... 4.0	130	Normal	OptiMOS™	TO263-3
IPI80N06S2L-05	4.80	80	0.50	1.2 ... 2.0	170	Logic	OptiMOS™	TO262-3
IPP80N06S2L-H5	5.00	80	0.50	1.2 ... 2.0	145	Logic	OptiMOS™	TO220-3



55 V (Planar) (cont'd)

Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRFB1405	5.00	174	0.45	2.0 ... 4.0	170	Normal	Gen 5	TO-220
IPB80N06S2-H5	5.20	80	0.50	2.1 ... 4.0	116	Normal	OptiMOS™	TO263-3
AUIRF1405	5.30	75	0.45	2.0 ... 4.0	170	Normal	Gen 7	TO-220
AUIRFP1405	5.30	95	0.49	2.0 ... 4.0	120	Normal	Gen 7	TO-247
IPP80N06S2-H5	5.50	80	0.50	2.1 ... 4.0	116	Normal	OptiMOS™	TO220-3
IPB80N06S2L-06	6.00	80	0.60	1.2 ... 2.0	114	Logic	OptiMOS™	TO263-3
IPB80N06S2-07	6.30	80	0.60	2.1 ... 4.0	86	Normal	OptiMOS™	TO263-3
IPI80N06S2-07	6.60	80	0.60	2.1 ... 4.0	86	Normal	OptiMOS™	TO262-3
IPP80N06S2-07	6.60	80	0.60	2.1 ... 4.0	86	Normal	OptiMOS™	TO220-3
IPP80N06S2L-07	7.00	80	0.70	1.2 ... 2.0	95	Logic	OptiMOS™	TO220-3
IPB80N06S2-08	7.70	80	0.70	2.1 ... 4.0	72	Normal	OptiMOS™	TO263-3
IPI80N06S2-08	8.00	80	0.70	2.1 ... 4.0	72	Normal	OptiMOS™	TO262-3
AUIRF3205	8.00	75	0.75	2.0 ... 4.0	97	Normal	Gen 5	TO-220
AUIRF3305	8.00	140	0.45	2.0 ... 4.0	100	Normal	Gen 5	TO-220
AUIRFI3205	8.00	64	2.40	2.0 ... 4.0	113	Normal	Gen 5	FullPAK
AUIRFP064N	8.00	110	0.75	2.0 ... 4.0	113	Normal	Gen 5	TO-247
AUIRLI2505	8.00	58	2.40	1.0 ... 3.0	87	Logic	Gen 5	FullPAK
IPB80N06S2L-09	8.20	80	0.80	1.2 ... 2.0	82	Logic	OptiMOS™	TO263-3
IPP80N06S2L-09	8.50	80	0.80	1.2 ... 2.0	82	Logic	OptiMOS™	TO220-3
IPB80N06S2-09	8.80	80	0.80	2.1 ... 4.0	60	Normal	OptiMOS™	TO263-3
IPP80N06S2-09	9.10	80	0.80	2.1 ... 4.0	60	Normal	OptiMOS™	TO220-3
IPP80N06S2L-09	11.00	80	0.95	1.2 ... 2.0	62	Logic	OptiMOS™	TO220-3
IPB77N06S2-12	11.70	77	0.95	2.1 ... 4.0	45	Normal	OptiMOS™	TO263-3
IPP77N06S2-12	12.00	77	0.95	2.1 ... 4.0	45	Normal	OptiMOS™	TO220-3
IPD50N06S2L-13	12.70	50	1.10	1.2 ... 2.0	52	Logic	OptiMOS™	TO252-3
IPD30N06S2L-13	13.00	30	1.10	1.2 ... 2.0	52	Logic	OptiMOS™	TO252-3
AUIRFZ48N	14.00	64	0.95	2.0 ... 4.0	54	Normal	Gen 7	TO-220
IPD50N06S2-14	14.40	50	1.10	2.1 ... 4.0	39	Normal	OptiMOS™	TO252-3
IPD30N06S2-15	14.70	30	1.10	1.2 ... 2.0	39	Normal	OptiMOS™	TO252-3
AUIRFZ46NL	16.50	39	1.40	2.0 ... 4.0	48	Normal	Gen 7	TO-262
AUIRFZ44N	17.50	49	1.50	2.0 ... 4.0	42	Normal	Gen 7	TO-220
IPD30N06S2L-23	23.00	30	1.50	1.2 ... 2.0	33	Logic	OptiMOS™	TO252-3
IPD30N06S2-23	23.00	30	1.50	2.1 ... 4.0	25	Normal	OptiMOS™	TO252-3
AUIRFIZ44N	24.00	31	3.30	2.0 ... 4.0	43	Normal	Gen 5	FullPAK
AUIRLR2905	27.00	42	1.40	1.0 ... 2.0	36	Logic	Gen 5	TO-252
BSP603S2L	33.00	5.2	20.00	1.2 ... 2.0	31	Logic	OptiMOS™	SOT-323
IPD26N06S2L-35	35.00	30	2.20	1.2 ... 2.0	10	Logic	OptiMOS™	TO252-3
IPD25N06S2-40	40.00	29	2.20	2.1 ... 4.0	14	Normal	OptiMOS™	TO252-3
AUIRFIZ34N	40.00	21	4.10	2.0 ... 4.0	23	Normal	Gen 5	FullPAK
AUIRFZ34N	40.00	29	2.20	2.0 ... 4.0	23	Normal	Gen 5	TO-220
AUIRLL2705	40.00	5	120.00	1.0 ... 3.0	32	Logic	Gen 5	SOT-223
AUIRLZ24NS	60.00	18	3.30	1.0 ... 2.0	7	Logic	Gen 5	TO-263-3
IPD15N06S2L-64	64.00	19	3.20	1.2 ... 2.0	11	Logic	OptiMOS™	TO252-3
AUIRLL024N	65.00	4	120.00	1.0 ... 2.0	7	Logic	Gen 5	SOT-223
AUIRLR024N	65.00	17	3.30	1.0 ... 2.0	10	Logic	Gen 5	TO-252
AUIRFZ24NS	70.00	17	3.30	2.0 ... 4.0	13	Normal	Gen 5	TO-263-3
AUIRFL024N	75.00	3	120.00	2.0 ... 4.0	12	Normal	Gen 5	SOT-223
IPD14N06S2-80	80.00	17	3.20	2.1 ... 4.0	8	Normal	OptiMOS™	TO252-3
AUIRLL014N	140.00	3	120.00	1.0 ... 2.0	10	Logic	Gen 5	SOT-223
AUIRLR014N	140.00	10	5.30	1.0 ... 3.0	5	Logic	Gen 5	TO-252
AUIRFL014N	160.00	2	120.00	2.0 ... 4.0	7	Normal	Gen 5	SOT-223
IPG20N06S2L-35	2 × 35.0	20	2.30	1.2 ... 2.2	18.0	Logic	OptiMOS™	Dual TDSO-8
IPG20N06S2L-35A	2 × 35.0	20	2.30	1.2 ... 2.2	18.0	Logic	OptiMOS™	Dual TDSO-8
AUIRF7341Q	2 × 50.0	5.1	20.00	1.0 ... 3.0	29	Logic	Gen 5	SO-8
IPG20N06S2L-50	2 × 50.0	20	2.90	1.2 ... 2.2	12.4	Logic	OptiMOS™	Dual TDSO-8
IPG20N06S2L-50A	2 × 50.0	20	2.90	1.2 ... 2.2	12.4	Logic	OptiMOS™	Dual TDSO-8
IPG20N06S2L-65	2 × 65.0	20	3.50	1.2 ... 2.2	10.0	Logic	OptiMOS™	Dual TDSO-8
IPG20N06S2L-65A	2 × 65.0	20	3.50	1.2 ... 2.2	10.0	Logic	OptiMOS™	Dual TDSO-8

Automotive N-Channel MOSFETs

60 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF7478Q	26	7	20	1.0 ... 3.0	21	Logic	Gen 7	DSO-8

75 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRFP2907	4.50	90	0.32	2.0 ... 4.0	410	Normal	Gen 7	TO-247
IPB100N08S2L-07	6.50	100	0.50	1.2 ... 2.0	185	Logic	OptiMOS™	TO263-3
IPB100N08S2-07	6.80	100	0.50	2.1 ... 4.0	153	Normal	OptiMOS™	TO263-3
IPB80N08S2L-07	6.80	80	0.50	1.2 ... 2.0	186	Logic	OptiMOS™	TO263-3
IPP100N08S2L-07	6.80	100	0.50	1.2 ... 2.0	182	Logic	OptiMOS™	TO220-3
IPB80N08S2-07	7.10	80	0.50	2.1 ... 4.0	182	Normal	OptiMOS™	TO263-3
IPI100N08S2-07	7.10	100	0.50	2.1 ... 4.0	144	Normal	OptiMOS™	TO262-3
IPP80N08S2L-07	7.10	80	0.50	1.2 ... 2.0	183	Logic	OptiMOS™	TO220-3
IPI80N08S2-07	7.40	80	0.50	2.1 ... 4.0	144	Normal	OptiMOS™	TO262-3
AUIRF3007	12.60	75	0.74	2.0 ... 4.0	89	Normal	Gen 7	TO-220
AUIRF2807	13.00	75	0.65	2.0 ... 4.0	107	Normal	Gen 7	TO-220
IPD30N08S2L-21	20.50	30	1.10	1.2 ... 2.0	43	Logic	OptiMOS™	TO252-3
IPD30N08S2-22	21.50	30	1.10	2.1 ... 4.0	44	Normal	OptiMOS™	TO252-3
IPD22N08S2L-50	50.00	22	2.00	1.2 ... 2.0	21	Logic	OptiMOS™	TO-252-3

100 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRLR3410	105	15	1.90	1.0 ... 2.0	23	Logic	Gen 5	TO-252
AUIRLR120N	185	11	3.10	1.0 ... 2.0	13	Logic	Gen 5	TO-252

150 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF3415	42	43	0.75	2.0 ... 4.0	133	Normal	Gen 5	TO-220
AUIRF3315S	82	21	1.60	2.0 ... 4.0	63	Normal	Gen 5	TO-263-3

Automotive P-Channel MOSFETs

30 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB80P03P4L-04	4.10	-80	1.10	-2.0 ... -1.0	125	Logic	OptiMOS™-P2	TO263-3
IPI80P03P4L-04	4.40	-80	1.10	-2.0 ... -1.0	125	Logic	OptiMOS™-P2	TO262-3
IPP80P03P4L-04	4.40	-80	1.10	-2.0 ... -1.0	125	Logic	OptiMOS™-P2	TO220-3
IPD90P03P4L-04	4.50	-90	1.10	-2.0 ... -1.0	100	Logic	OptiMOS™-P2	TO252-3
IPD90P03P4-04	4.50	-90	1.10	-4.0 ... -2.0	100	Normal	OptiMOS™-P2	TO252-3
IPB80P03P4-05	4.70	-80	1.10	-4.0 ... -2.0	100	Normal	OptiMOS™-P2	TO263-3
IPI80P03P4-05	5.00	-80	1.10	-4.0 ... -2.0	100	Normal	OptiMOS™-P2	TO262-3
IPP80P03P4-05	5.00	-80	1.10	-4.0 ... -2.0	100	Normal	OptiMOS™-P2	TO220-3
IPD80P03P4L-07	6.80	-80	1.70	-2.0 ... -1.0	80	Logic	OptiMOS™-P2	TO252-3
IPB80P03P4L-07	6.90	-80	1.70	-2.0 ... -1.0	63	Logic	OptiMOS™-P2	TO263-3
IPI80P03P4L-07	7.20	-80	1.70	-2.0 ... -1.0	63	Logic	OptiMOS™-P2	TO262-3
IPP80P03P4L-07	7.20	-80	1.70	-2.0 ... -1.0	63	Logic	OptiMOS™-P2	TO220-3
IPD50P03P4L-11	10.50	-50	2.60	-2.0 ... -1.0	42	Logic	OptiMOS™-P2	TO252-3
IPB45P03P4L-11	10.80	-45	2.60	-2.0 ... -1.0	42	Logic	OptiMOS™-P2	TO263-3
IPP45P03P4L-11	11.10	-45	2.60	-2.0 ... -1.0	42	Logic	OptiMOS™-P2	TO220-3

40 V (Trench)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
IPB180P04P4L-02	2.40	-100	1.00	-2.2 ... -1.7	220	Logic	OptiMOS™-P2	TO263-7
IPB180P04P4-03	2.80	-100	1.00	-4.0 ... -2.0	190	Normal	OptiMOS™-P2	TO263-7
IPB120P04P4L-03	3.00	-120	1.10	-2.2 ... -1.7	180	Logic	OptiMOS™-P2	TO263-3
IPP120P04P4L-03	3.40	-120	1.10	-2.2 ... -1.7	180	Logic	OptiMOS™-P2	TO220-3
IPI120P04P4L-03	3.40	-120	1.10	-2.2 ... -1.7	180	Logic	OptiMOS™-P2	TO262-3
IPB120P04P4-04	3.60	-120	1.10	-4.0 ... -2.0	158	Normal	OptiMOS™-P2	TO263-3
IPP120P04P4-04	3.90	-120	1.10	-4.0 ... -2.0	158	Normal	OptiMOS™-P2	TO220-3
IPI120P04P4-04	3.90	-120	1.10	-4.0 ... -2.0	135	Normal	OptiMOS™-P2	TO262-3
IPB80P04P4L-04	4.20	-90	1.20	-2.2 ... -1.7	135	Logic	OptiMOS™-P2	TO263-3
IPD90P04P4L-04	4.30	-90	1.20	-2.2 ... -1.7	135	Logic	OptiMOS™-P2	TO252-3
IPD90P04P4-05	4.70	-90	1.20	-4.0 ... -2.0	118	Normal	OptiMOS™-P2	TO252-3
IPP80P04P4L-04	4.70	-80	1.20	-2.2 ... -1.7	16	Logic	OptiMOS™-P2	TO220-3
IPI80P04P4L-04	4.70	-80	1.20	-2.2 ... -1.7	16	Logic	OptiMOS™-P2	TO262-3
IPB80P04P4-05	4.90	-80	1.20	-4.0 ... -2.0	118	Normal	OptiMOS™-P2	TO263-3
IPI80P04P4-05	5.20	-80	1.20	-4.0 ... -2.0	14	Normal	OptiMOS™-P2	TO262-3
IPB80P04P4L-06	6.40	-80	1.70	-2.2 ... -1.7	71	Logic	OptiMOS™-P2	TO263-3
IPD85P04P4L-06	6.40	-85	1.70	-2.2 ... -1.7	80	Logic	OptiMOS™-P2	TO252-3
IPP80P04P4L-06	6.70	-80	1.70	-2.2 ... -1.7	71	Logic	OptiMOS™-P2	TO220-3
IPI80P04P4L-06	6.70	-80	1.70	-2.2 ... -1.7	71	Logic	OptiMOS™-P2	TO262-3
IPB80P04P4-07	7.30	-80	1.70	-4.0 ... -2.0	71	Normal	OptiMOS™-P2	TO263-3
IPD85P04P4-07	7.30	-85	1.70	-4.0 ... -2.0	69	Normal	OptiMOS™-P2	TO252-3
IPP80P04P4-07	7.60	-80	1.70	-4.0 ... -2.0	71	Normal	OptiMOS™-P2	TO220-3
IPI80P04P4-07	7.60	-80	1.70	-4.0 ... -2.0	71	Normal	OptiMOS™-P2	TO262-3
IPD70P04P4L-08	7.80	-70	2.00	-2.2 ... -1.7	63	Logic	OptiMOS™-P2	TO252-3
IPP80P04P4L-08	7.90	-80	2.00	-1.2 ... -2.2	71	Logic	OptiMOS™-P2	TO220-3
IPD70P04P4-09	8.90	-70	2.00	-4.0 ... -2.0	54	Normal	OptiMOS™-P2	TO252-3
IPB70P04P4-09	9.30	-70	2.00	-4.0 ... -2.0	54	Normal	OptiMOS™-P2	TO263-3
IPI70P04P4-09	9.40	-70	2.00	-4.0 ... -2.0	54	Normal	OptiMOS™-P2	TO262-3
IPD50P04P4L-11	10.60	-50	2.60	-2.2 ... -1.7	45	Logic	OptiMOS™-P2	TO252-3
IPD50P04P4-13	12.70	-50	2.60	-4.0 ... -2.0	39	Normal	OptiMOS™-P2	TO252-3

Automotive P-Channel MOSFETs

20 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF7207Q	60	-5	N/A	-1.6 ... -0.7	15	Logic	Gen 5	DSO-8
AUIRF7304Q	2 x 90	-4.3	N/A	-1.6 ... -0.7	15	Logic	Gen 5	DSO-8

30 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF7416Q	20	-10	N/A	-2.0 ... -1.0	61	Logic	Gen 5	DSO-8
AUIRF7316Q	2 x 58	-4.9	N/A	-3.0 ... -1.0	23	Logic	Gen 5	DSO-8

55 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF4905	20	-74	0.75	-4.0 ... -2.0	120	Normal	Gen 5	TO-220
AUIRF4905L	20	-74	0.75	-4.0 ... -2.0	120	Normal	Gen 5	TO-262
AUIRF4905S	20	-74	0.75	-4.0 ... -2.0	120	Normal	Gen 5	TO-263-3
AUIRFI4905	20	-74	0.75	-4.0 ... -2.0	120	Normal	Gen 5	FullPAK
AUIRFR5305	65	-28	1.40	-4.0 ... -2.0	42	Normal	Gen 5	TO-252
AUIRF9Z34N	100	-17	2.20	-4.0 ... -2.0	23	Normal	Gen 5	TO-220
AUIRFR5505	110	-18	2.20	-4.0 ... -2.0	21	Normal	Gen 5	TO-252
AUIRFR9024N	175.00	-11	3.30	-4.0 ... -2.0	13	Normal	Gen 5	TO-252
AUIRF7342Q	2 x 105	-3.4	N/A	-3.0 ... -1.0	26	Logic	Gen 5	DSO-8

100 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF5210S	60	-38	0.75	-4.0 ... -2.0	150	Normal	Gen 5	TO-263-3
AUIRF9540N	117	-23	1.10	-4.0 ... -2.0	65	Normal	Gen 5	TO-220
AUIRFR5410	205	-13	1.90	-4.0 ... -2.0	39	Normal	Gen 5	TO-252

150 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	R_{thJC} (max) [K/W]	$V_{GS(th)}$ (min–max) [V]	Q_G (typ) [nC]	Normal/ Logic Level	Technology	Package
AUIRF6218S	150	-27	0.61	-5.0 ... -3.0	71	Normal	Gen 5	TO-263-3
AUIRF6215S	295	-13	1.40	-4.0 ... -2.0	44	Normal	Gen 5	TO-263-3
AUIRFR6215	295	-13	1.40	-4.0 ... -2.0	44	Normal	Gen 5	TO-252
AUIRF6215	295	-13	1.40	-4.0 ... -2.0	44	Normal	Gen 5	TO-220

Automotive N+P-Channel MOSFETs

30 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic level	Technology	Package
AUIRF7319Q	29 / 58	5.8 / -4.9	1.0 ... 3.0	22 / 23	Logic	Gen 5	DSO-8
AUIRF7379Q	45 / 90	5.8 / -4.3	1.0 ... 3.0	25 / 25	Logic	Gen 5	DSO-8
AUIRF7309Q	50 / 100	4.7 / -3.5	1.0 ... 3.0	25 / 25	Logic	Gen 5	DSO-8
AUIRF9952Q	100 / 250	3.5 / -2.3	1.0 ... 3.0	6.9 / 6.1	Logic	Gen 5	DSO-8

55 V (Planar)



Product Type	$R_{DS(on)}$ @ 10 V [mΩ]	I_D [A]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	Normal/ Logic level	Technology	Package
AUIRF7343Q	50 / 105	4.7 / -3.4	1.0 ... 3.0	24 / 26	Logic	Gen 5	DSO-8

PN Driver 40V

30 V (Planar)



Product Type	Voltage Range [V]	I_q @ $T_j = 105^\circ\text{C}$ [μA]	Turn on/off Current [A]	Duty Cycle Range [%]	R_{thJA} (max) [K/W]	R_{thJC} (max) [K/W]	Package
IPN10EL-S	4-40	3	0.4/0.4	0 ... 100	50	10	SSOP-14

Small Signal MOSFETs

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

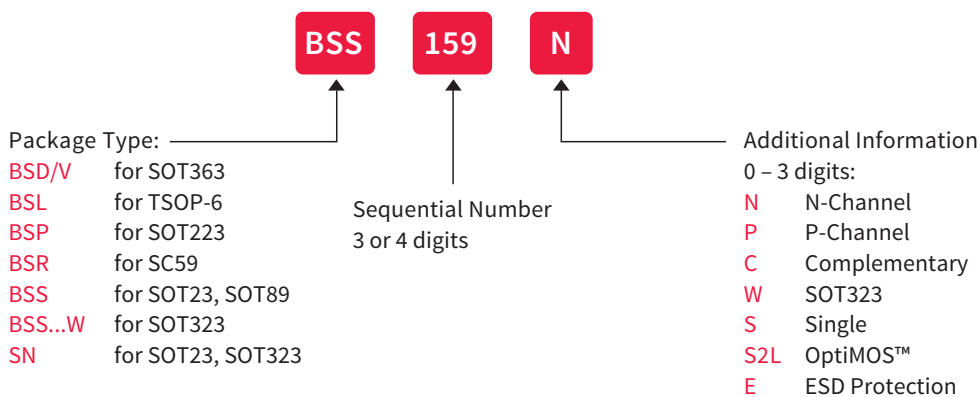
The portfolio includes:

- 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 Type	$R_{DS(on)}$ (max) [mΩ]	I_D [A]	$V_{GS(th)}$ (min-max) [V]	Q_g (typ) [nC]	Technology	Package
20 V	BSL802SN	–	7.5	0.3 ... 0.75	4.7	OptiMOS™2	TSOP-6
	BSL202SN	–	7.5	0.7 ... 1.2	5.8	OptiMOS™2	TSOP-6
	BSL205N	–	2.5	0.7 ... 1.2	2.1	OptiMOS™2	TSOP-6 (dual)
	BSL214N	–	1.5	0.7 ... 1.2	0.8	OptiMOS™2	TSOP-6 (dual)
	BSL207N	–	2.1	0.7 ... 1.2	2.1	OptiMOS™2	TSOP-6 (dual)
	BSL806N	–	2.3	0.3 ... 0.75	1.7	OptiMOS™2	TSOP-6 (dual)
	BSR202N	–	3.8	0.7 ... 1.2	5.8	OptiMOS™2	SC59
	BSR802N	–	3.7	0.3 ... 0.75	4.7	OptiMOS™2	SC59
	BSS205N	–	2.5	0.7 ... 1.2	2.1	OptiMOS™2	SOT23
	BSS214N	–	1.5	0.7 ... 1.2	0.8	OptiMOS™2	SOT23
	BSS806N	–	2.3	0.3 ... 0.75	1.7	OptiMOS™2	SOT23
	BSS816NW	–	1.4	0.3 ... 0.75	0.6	OptiMOS™2	SOT323
	BSS214NW	–	1.5	0.7 ... 1.2	0.8	OptiMOS™2	SOT323
	BSD214NW	–	1.5	0.7 ... 1.2	0.8	OptiMOS™2	SOT363
	BSD816SN	–	1.4	0.3 ... 0.75	0.6	OptiMOS™2	SOT363
	BSD235N	–	0.95	0.7 ... 1.2	0.32	OptiMOS™2	SOT363 (dual)
	BSD840N	–	0.88	0.3 ... 0.75	0.26	OptiMOS™2	SOT363 (dual)
30 V	BSR302N	23	3.7	1.2 ... 2.0	4.4	OptiMOS™2	SC59
	BSL302SN	25	7.1	1.2 ... 2.0	4.4	OptiMOS™2	TSOP-6
	BSL306N	57	2.3	1.2 ... 2.0	1.6	OptiMOS™2	TSOP-6 (dual)
	BSS306	57	2.3	1.2 ... 2.0	1.5	OptiMOS™2	SOT23
	BSS316N	160	1.4	1.2 ... 2.0	0.6	OptiMOS™2	SOT23
	BSD316SN	160	1.4	1.2 ... 2.0	0.6	OptiMOS™2	SOT363
55 V	BSS670S2L	650	0.54	1.2 ... 2.0	1.7	OptiMOS™	SOT23
60 V	BSS606N	60	3.2	1.3 ... 2.3	6.1	OptiMOS™3	SOT89
	BSL606SN	60	4.5	1.3 ... 2.3	6.1	OptiMOS™3	TSOP-6
	BSR606N	60	2.4	1.3 ... 2.3	6.1	OptiMOS™3	SC59
	BSP318S	90	2.6	1.2 ... 2.0	14.0	SIPMOS™	SOT223
	BSP320S	120	2.9	2.1 ... 4.0	9.7	SIPMOS™	SOT223
	BSP295	300	1.8	0.8 ... 1.8	14.0	SIPMOS™	SOT223
	2N7002DW	3,000	0.3	1.5 ... 2.5	0.4	OptiMOS™	SOT363 (dual)
	BSS138N	3,500	0.23	0.6 ... 1.4	1.0	SIPMOS™	SOT23
	BSS138W	3,500	0.28	0.6 ... 1.4	1.0	SIPMOS™	SOT223
	SN7002N	5,000	0.2	0.8 ... 1.8	1.0	SIPMOS™	SOT23
	BSS7728N	5,000	0.2	1.3 ... 2.3	1.0	SIPMOS™	SOT23
	SN7002W	5,000	0.23	0.8 ... 1.8	1.0	SIPMOS™	SOT323
100 V	BSL372SN	220	2.0	4.5	9.5	SIPMOS™	TSOP-6
	BSP372N	230	1.8	0.8 ... 2.0	9.5	SIPMOS™	SOT223
	BSL373SN	230	2.0	10.0	6.2	SIPMOS™	TSOP-6
	BSP373N	240	1.8	2.1 ... 4.0	6.2	SIPMOS™	SOT223
	BSL296SN	460	1.4	4.5	4.5	SIPMOS™	TSOP-6
	BSP296N	600	1.2	0.8 ... 1.8	4.5	SIPMOS™	SOT223
	BSS123N	6,000	0.19	0.8 ... 1.8	0.6	SIPMOS™	SOT23
	BSS119N	6,000	0.19	1.8 ... 2.3	0.6	SIPMOS™	SOT23
200 V	BSP297	1,800	0.66	0.8 ... 1.8	12.9	SIPMOS™	SOT223
240 V	BSP89	6,000	0.35	0.8 ... 1.8	4.3	SIPMOS™	SOT223
	BSP88	6,000	0.35	0.6 ... 1.4	4.5	SIPMOS™	SOT223
	BSS87	6,000	0.26	0.8 ... 1.8	3.7	SIPMOS™	SOT89
	BSS131	14,000	0.11	0.8 ... 1.8	2.1	SIPMOS™	SOT23

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Small Signal MOSFETs

N-Channel MOSFETs (cont'd)

Voltage	Product Type	$R_{DS(on)}$ (max) [mΩ]	I_D [A]	$V_{GS(th)}$ (min-max) [V]	Q_g (typ) [nC]	Technology	Package
400 V	BSP298	3,000	0.5	2.1 ... 4.0	–	SIPMOS™	SOT223
	BSP324	25,000	0.17	1.3 ... 2.3	4.5	SIPMOS™	SOT223
500 V	BSP299	4,000	0.4	2.1 ... 4.0	–	SIPMOS™	SOT223
600 V	BSP125	45,000	0.12	1.3 ... 2.3	4.4	SIPMOS™	SOT223
	BSS225	45,000	0.09	1.3 ... 2.3	3.9	SIPMOS™	SOT89
	BSS127	500,000	0.023	1.4 ... 2.6	1.4	SIPMOS™	SOT23
800 V	BSP300	20	0.19	2.1 ... 4.0	–	SIPMOS™	SOT223

P-Channel MOSFETs

Voltage	Product Type	$R_{DS(on)}$ (max) @ $V_{GS} = -10$ V [mΩ]	I_D [A]	$V_{GS(th)}$ (min-max) [V]	Q_g (typ) [nC]	Technology	Package
-20 V	BSL207SP	–	-6.0	-1.2 ... -0.6	-13.3	OptiMOS™2 P	TSOP-6
	BSL211SP	–	-4.7	-1.2 ... -0.6	-8.3	OptiMOS™2 P	TSOP-6
	BSL215P	–	-1.5	-1.2 ... -0.6	-3.55	OptiMOS™2 P	TSOP-6 (dual)
	BSS215P	–	-1.5	-1.2 ... -0.5	-3.6	OptiMOS™2 P	SOT23
	BSS209PW	–	-0.58	-1.2 ... -0.6	-0.92	OptiMOS™2 P	SOT323
	BSS223PW	–	-0.39	-1.2 ... -0.6	-0.5	OptiMOS™2 P	SOT323
	BSV236SP	–	-1.5	-1.2 ... -0.6	-3.8	OptiMOS™ P	SOT363
	BSD223P	–	-0.39	-1.2 ... -0.6	-0.5	OptiMOS™2 P	SOT363 (dual)
-30 V	BSL307SP	43	-5.5	-2.0 ... -1.0	-23.4	OptiMOS™2 P	TSOP-6
	BSL308PE	80	-2.1	-2.0 ... -1.0	-2.9	OptiMOS™3 P + integrated ESD diode	TSOP-6 (dual)
	BSL314PE	140	-1.5	-2.0 ... -1.0	-2.3	OptiMOS™3 P + integrated ESD diode	TSOP-6 (dual)
	BSL315P	150	-1.5	-2.0 ... -1.0	-2.3	OptiMOS™2 P	TSOP-6 (dual)
	BSS308PE	80	-2.1	-2.0 ... -1.0	-5.2	OptiMOS™3 P + integrated ESD diode	SOT23
	BSS314PE	140	-1.5	-2.0 ... -1.0	-2.9	OptiMOS™3 P + integrated ESD diode	SOT23
	BSS315P	150	-1.5	-2.0 ... -1.0	-2.3	OptiMOS™2 P	SOT23
	BSD314SPE	140	-1.5	-2.0 ... -1.0	-2.9	OptiMOS™3 P + integrated ESD diode	SOT363
	BSL303SPE	30	-6.6	4.5	–	OptiMOS™ P + integrated ESD diode	TSOP-6
	BSL305SPE	50	-5.3	4.5	–		TSOP-6
	BSS356PWE ¹⁾	560	-0.73	4.5	–		SOT323
	BSD356PE ¹⁾	560	-0.73	4.5	–		SOT363
-60 V	BSP613P	130	-2.9	-4.0 ... -2.1	-22.0	SIPMOS™	SOT223
	BSP170P	300	-1.9	-4.0 ... -2.1	-10.0	SIPMOS™	SOT223
-60 V	BSP171P	300	-1.9	-2.0 ... -1.0	-13.0	SIPMOS™	SOT223
	BSP315P	800	-1.17	-2.0 ... -1.0	-5.2	SIPMOS™	SOT223
	BSR315P	800	-0.62	-2.0 ... -1.0	-4.0	SIPMOS™	SC59
	BSS83P	2,000	-0.33	-2.0 ... -1.0	-2.38	SIPMOS™	SOT23
	BSS84P	8,000	-0.17	-2.0 ... -1.0	-1.0	SIPMOS™	SOT23
	BSS84PW	8,000	-0.15	-2.0 ... -1.0	-1.0	SIPMOS™	SOT323

1) Coming Q1/2016

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P-Channel MOSFETs (cont'd)

Voltage	Product Type	$R_{DS(on)}$ (max) @ $V_{GS} = -10\text{ V}$ [mΩ]	I_D [A]	$V_{GS(th)}$ (min-max) [V]	Q_g (typ) [nC]	Technology	Package
-100 V	BSP322P	800	-1.0	-2.0 ... -1.0	-12.4	SIPMOS™	SOT223
	BSP321P	900	-0.98	-4.0 ... -2.1	-9.0	SIPMOS™	SOT223
	BSP316P	1,800	-0.68	-2.0 ... -1.0	-5.1	SIPMOS™	SOT223
	BSR316P	1,800	-0.36	-2.0 ... -1.0	-3.0	SIPMOS™	SC59
-250 V	BSP317P	4,000	-0.43	-2.0 ... -1.0	-11.6	SIPMOS™	SOT223
	BSP92P	12,000	-0.26	-2.0 ... -1.0	-4.3	SIPMOS™	SOT223
	BSS192P	12,000	-0.19	-2.0 ... -1.0	-4.9	SIPMOS™	SOT89
	BSR92P	11,000	-0.14	-2.0 ... -1.0	-3.6	SIPMOS™	SC59

Complementary MOSFETs

Voltage	Product Type	$R_{DS(on)}$ (max) @ $V_{GS} = -10\text{ V}$ [mΩ]	I_D [A]	$V_{GS(th)}$ (min-max) [V]	Q_g (typ) [nC]	Technology	Package
20 V	BSL215C/n-ch	–	1.5	0.7 ... 1.2	0.73	OptiMOS™2	TSOP-6 (dual)
-20 V	BSL215C/p-ch	–	-1.5	-1.2 ... -0.6	-3.0	OptiMOS™2 P	TSOP-6 (dual)
20 V	BSD235C/n-ch	–	0.95	-1.2 ... -0.6	0.34	OptiMOS™2	SOT363 (dual)
-20 V	BSD235C/p-ch	–	-0.53	0.7 ... 1.2	-0.4	OptiMOS™2 P	SOT363 (dual)
20 V	BSZ15DC02KD/n-ch	–	5.1	0.8 ... 1.4	2.1	OptiMOS™2	TSDSON-8 (dual)
-20 V	BSZ15DC02KD/p-ch	–	-3.2	-1.4 ... -0.7	-3.0	OptiMOS™2 P	TSDSON-8 (dual)
30 V	BSL316C/n-ch	160	1.4	-2.0 ... -1.0	0.6	OptiMOS™2	TSOP-6 (dual)
-30 V	BSL316C/p-ch	150	-1.5	1.2 ... 2.0	-2.4	OptiMOS™2 P	TSOP-6 (dual)
30 V	BSL308C/n-ch	57	2.3	1.2 ... 2.0	1.5	OptiMOS™2	TSOP-6 (dual)
-30 V	BSL308C/p-ch	80	-2.1	-2.0 ... -1.0	-2.9	OptiMOS™3 P	TSOP-6 (dual)
30 V	BSD356C/n-ch ¹⁾	350	0.95	4.5	–	OptiMOS™2	SOT363 (dual)
-30 V	BSD356C/p-ch ¹⁾	560	-0.73	4.5	–	OptiMOS™2 P	SOT363 (dual)

Depletion MOSFETs

Voltage	Product Type	$R_{DS(on)}$ (max) @ $V_{GS} = 0\text{ V}$ [mΩ]	I_D [A]	Q_g (typ) [nC]	Technology	Package
60 V	BSS159N	8.0	0.13	2.2	SIPMOS™	SOT23
100 V	BSS169	12.0	0.09	2.1	SIPMOS™	SOT23
200 V	BSP149	3.5	0.14	11.0	SIPMOS™	SOT223
240 V	BSP129	20.0	0.05	3.8	SIPMOS™	SOT223
250 V	BSS139	30.0	0.03	2.3	SIPMOS™	SOT23
600 V	BSP135	60.0	0.02	3.7	SIPMOS™	SOT223
	BSS126	700.0	0.007	1.4	SIPMOS™	SOT23

1) Coming Q1/2016

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Power MOSFETs

600 V CoolMOS™ CPA and 650 V CoolMOS™ CFDA

After launching the first series of high voltage automotive MOSFET the 600 V CoolMOS™ CPA series, Infineon has launched its second generation of market leading Automotive qualified high voltage MOSFET the 650 V CoolMOS™ CFDA series. Were 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 new 650 V CoolMOS™ CFDA series additionally 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 due to the low gate charge. 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 now complemented with the broad 650 V CoolMOS™ CFDA portfolio which provides all benefits of 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 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 & low Q_{oss}

Applications 600 V CoolMOS™ CPA

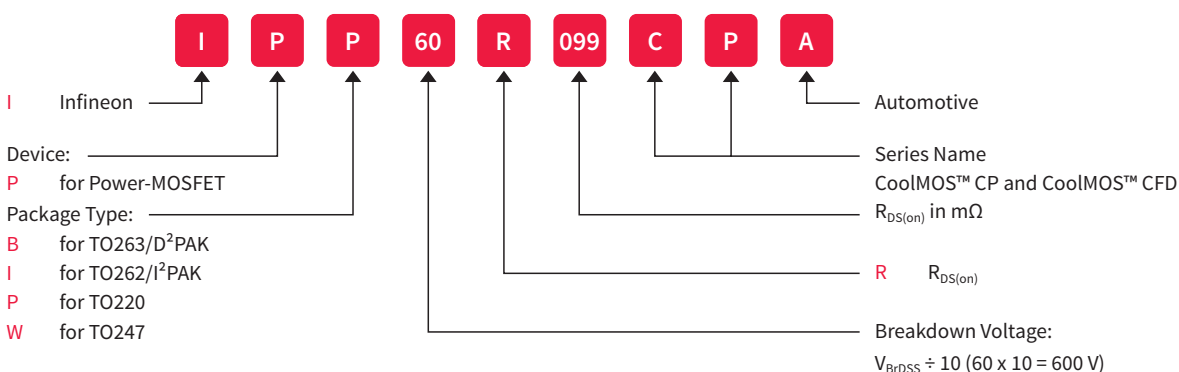
- Hard switching topologies
- PFC boost stages in on board charger
- Active clamp or 2 transistor forward in DC/DC converter

Application 650 V CoolMOS™ CFDA

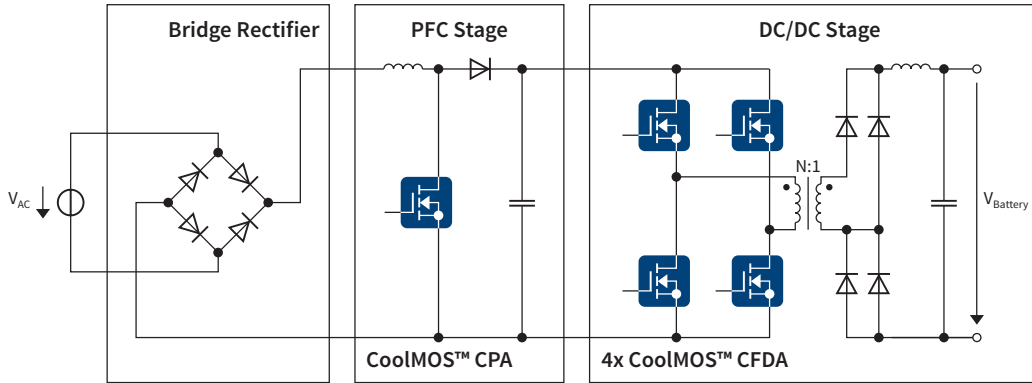
- Resonant switching topologies
- LLC or Full Bridge ZVS in DC/DC converter
- HID lamp



Naming System



Example for Automotive Topology using CoolMOS™ CFDA



On-board battery charger with ZVS phase shifted topology

600 V CoolMOS™ CPA Product Portfolio

Product Type	$R_{DS(on)}$ @ $T_J = 25^\circ\text{C}$ $V_{GS} = 10\text{ V}$ [mΩ]	I_D (max) @ $T_J = 25^\circ\text{C}$ [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	0.5	TO263-3
IPB60R199CPA	199	16	51	-20 ... 20	32	0.9	TO263-3
IPB60R299CPA	299	11	34	-20 ... 20	22	1.3	TO263-3
IPP60R099CPA	105	31	93	-20 ... 20	60	0.5	TO220-3
IPW60R045CPA	45	60	230	-20 ... 10	150	0.29	TO247-3
IPW60R075CPA	75	39	130	-20 ... 20	87	0.4	TO247-3
IPW60R099CPA	105	31	93	-20 ... 20	60	0.5	TO247-3
IPI60R099CPA	105	31	93	-20 ... 20	60	0.5	TO262-3

650 V CoolMOS™ CFDA Product Portfolio

Product Type	$R_{DS(on)}$ @ $T_J = 25^\circ\text{C}$ $V_{GS} = 10\text{ V}$ [mΩ]	I_D (max) @ $T_J = 25^\circ\text{C}$ [A]	I_{Dpuls} (max) [A]	$V_{GS(th)}$ (min-max) [V]	Q_G (typ) [nC]	R_{thJC} (max) [K/W]	Package
IPD65R420CFDA	420	8.7	27.0	3.5 ... 4.5	32	1.5	TO252-3
IPD65R660CFDA	660	6.0	17.0	3.5 ... 4.5	20	2.0	TO252-3
IPB65R110CFDA	110	31.2	99.6	3.5 ... 4.5	118	0.45	TO263-3
IPB65R150CFDA	150	22.4	72.0	3.5 ... 4.5	86	0.64	TO263-3
IPB65R190CFDA	190	17.5	57.2	3.5 ... 4.5	68	0.83	TO263-3
IPB65R310CFDA	310	11.4	34.4	3.5 ... 4.5	41	1.2	TO263-3
IPB65R660CFDA	660	6.0	17.0	3.5 ... 4.5	20	2.0	TO263-3
IPP65R110CFDA	110	31.2	99.6	3.5 ... 4.5	118	0.45	TO220-3
IPP65R150CFDA	150	22.4	72.0	3.5 ... 4.5	86	0.64	TO220-3
IPP65R190CFDA	190	17.5	57.2	3.5 ... 4.5	68	0.83	TO220-3
IPP65R310CFDA	310	11.4	34.4	3.5 ... 4.5	41	1.2	TO220-3
IPP65R660CFDA	660	6.0	17.0	3.5 ... 4.5	20	2.0	TO220-3
IPW65R048CFDA	48	63.3	228.0	3.5 ... 4.5	270	0.25	TO247-3
IPW65R080CFDA	80	43.3	127.0	3.5 ... 4.5	161	0.32	TO247-3
IPW65R110CFDA	110	31.2	99.6	3.5 ... 4.5	118	0.45	TO247-3
IPW65R150CFDA	150	22.4	72.0	3.5 ... 4.5	86	0.64	TO247-3
IPW65R190CFDA	190	17.5	57.2	3.5 ... 4.5	68	0.83	TO247-3

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