

Power MOSFET Selection Guide 2010

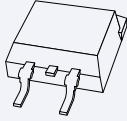
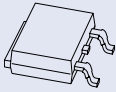



Smaller, faster, cooler



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12V – 25V N-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DS(on) max}$ [$V_{GS} = 10 V$](m Ω)	$R_{DS(on) max}$ [$V_{GS} = 4.5 V$](m Ω)	I_D max (A)	$Q_{g(tot)}$ (nC)	
D ² PAK (SOT404)	 PHB66NQ03LT	25	10.5		66	12	
DPAK (SOT428)	 PHD38N02LT	20			44.7		
Power SO-8 (LFAK)		PH3120L	20	2.65	3.7	100	48.5
		PH2520U	20		2.7	100	78
		PSMN1R2-25YL	25	1.2	1.85	100	50.6
		PSMN1R5-25YL	25	1.5	2.2	100	36
		PH1825AL	25	1.8	2.7	100	31
		PH2525L	25	2.5	3.9	100	34.7
		PH4025L	25	4		99	
		PH5525L	25	5.5	8.2	81.7	16.6
		PH9025L	25	9	13	66	12.8
		PH2925U	25		3	100	92
SC-101 (SOT883)		PMZ250UN	20		300	2.28	0.89
		PMZ270XN	20		340	2.15	0.72
SC-70 (SOT323)		PMF280UN	20		340	1.02	
		PMF290XN	20		350	1	0.72

Types in **bold red** represent new products

For the most up to date product information, please visit www.nxp.com/mosfets

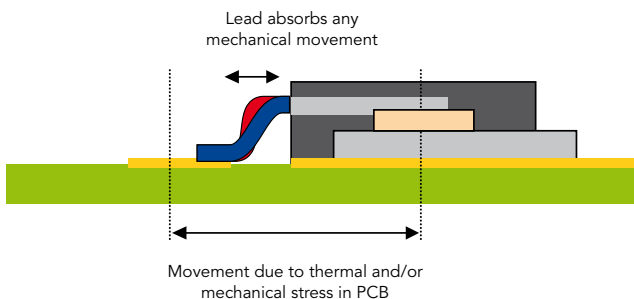
12V – 25V N-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DS(on) max}$ [$V_{GS} = 10 V$](m Ω)	$R_{DS(on) max}$ [$V_{GS} = 4.5 V$](m Ω)	I_D max (A)	$Q_{g(tot)}$ (nC)
SC-74 (SOT457)	PMN28UN	12		34	5.7	10.1
	PMN34LN	20	34	40	5.7	13.1
	PMN55LN	20	65	82	4.1	13.1
	PMN23UN	20		28	6.3	10.6
	PMN27UN	20		34	5.7	10.6
SC-75 (SOT416)	PMR280UN	20		340	0.98	0.89
	PMR290XN	20		350	0.97	0.72
SC-88 (SOT363)	PMGD280UN	20		340	0.87	
	PMGD290XN	20		350	0.86	0.72
SO8 (SOT96-1)	PHKD6N02LT	20			10.9	15.3
	PSMN006-20K	20		5	32	32
TO-220AB (SOT78)	PHP78NQ03LT	25	9		75	13
TO-236AB (SOT23)	BSH105	20		200	1.05	3.9
	PMV30UN	20		36	5.7	7.4
	PMV31XN	20		37	5.9	5.8
	PMV56XN	20		85	3.76	5.4
	SI2302DS	20		85	2.5	5.4

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LFPAK for mechanical & thermal ruggedness

NXP LFPAK



LFPAK pins provide compliance and allow for thermal expansion due to temperature difference between the MOSFET & PCB and also mechanical strain due to PCB bending & flexing

30V N-channel MOSFETs



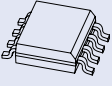
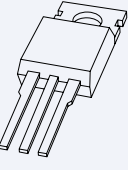

Package	Typenumber	V_{DS} (V)	$R_{DSon\ max}$ [$V_{GS} = 10\ V$](m Ω)	$R_{DSon\ max}$ [$V_{GS} = 4.5\ V$](m Ω)	$I_D\ max$ (A)	$Q_{g(tot)}$ (nC)	
DPAK (SOT428)		PHD71NQ03LT	30	10		75	13.2
		PHD36N03LT	30	17	22	43.4	18.5
Power SO-8 (LFPAK)		PSMN1R3-30YL	30	1.3	1.95	100	46.6
		PSMN1R5-30YL	30	1.5	1.9	100	77.9
		PSMN1R7-30YL	30	1.7	2.09	100	36.2
		PSMN2R0-30YL	30	2	2.63	100	30
		PSMN2R5-30YL	30	2.4	3.16	100	27
		PSMN3R0-30YL	30	3	4.04	100	21
		PSMN3R5-30YL	30	3.5	4.61	100	19
		PSMN4R0-30YL	30	4	5.25	100	17.6
		PSMN5R0-30YL	30	5	6.7	91	14.1
		PSMN6R0-30YL	30	6	7.87	79	11
		PSMN7R0-30YL	30	7	9.1	76	10
		PSMN9R0-30YL	30	8	11.03	61	8.7
QFN3333 (SOT873-1)		<u>PSMN3R5-30LL</u>	30	3.55	5.6	40	37
		<u>PSMN3R8-30LL</u>	30	3.7	5.8	40	38
		<u>PSMN5R8-30LL</u>	30	5.8	8.8	40	30
		<u>PSMN9R0-30LL</u>	30	9	13	21	20.6
		<u>PSMN013-30LL</u>	30	13	19	21	12.2
		<u>PSMN017-30LL</u>	30	17	25	15	10
SC-101 (SOT883)		PMZ350XN	30		420	1.87	0.65
		PMZ390UN	30		460	1.78	0.89
SC-70 (SOT323)		PMF370XN	30		440	0.87	0.65
		PMF400UN	30		480	0.83	
SC-73 (SOT223)		BSP030	30	30		10	24
		BSP100	30	100	200	6	6
SC-74 (SOT457)		PMN38EN	30	38	46	5.4	6.1
		PMN40LN	30	38	45	5.4	13.8
		PMN45EN	30	40	50	5.2	6.1
		PMN49EN	30	47	60	4.6	8.8
		PMN34UN	30		46	4.9	9.9

Types in **bold red** represent new products

Types in **bold red italic underline** represent products in development

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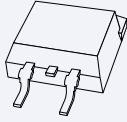



30V N-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DSon\ max}$ [$V_{GS} = 10\ V$](m Ω)	$R_{DSon\ max}$ [$V_{GS} = 4.5\ V$](m Ω)	$I_D\ max$ (A)	$Q_{g(tot)}$ (nC)	
SC-75 (SOT416)		PMR370XN	30		440	0.84	0.65
		PMR400UN	30		480	0.8	0.89
SC-88 (SOT363)		PMG370XN	30		440	0.96	0.65
		PMGD370XN	30		440	0.74	0.65
		PMGD400UN	30		480	0.71	0.89
		PMGD8000LN	30			0.125	0.35
SO8 (SOT96-1)		PHK31NQ03LT	30	4.4		30.4	
		PSMN005-30K	30	5.5	8	20	34
		PHK28NQ03LT	30	6.5	7.7	23.7	30.3
		PHK18NQ03LT	30	8.9		20.3	
		SI4410DY	30	13.5	20	10	21.5
		PHK13N03LT	30	20	26	13.8	10.7
		PHKD13N03LT	30	20	26	10.4	10.7
		PHN203	30	30	55	6.3	14.6
		PHN210T	30	100	200	3.4	
PHK12NQ03LT	30		14	11.8			
TO-220AB (SOT78)		PSMN1R6-30PL	30	1.7	2.1	100	101
		PSMN1R8-30PL	30	1.8	2.3	100	83
		PSMN2R0-30PL	30	2.1	2.8	100	55
		PSMN2R7-30PL	30	2.7	3.6	100	32
		PSMN003-30P	30	2.8		75	170
		PSMN4R3-30PL	30	4.3	6.2	100	19
		PHP101NQ03LT	30	5.5		75	23
		PHP36N03LT	30	17	22	43.4	18.5
TO-236AB (SOT23)		PMV45EN	30	42	54	5.4	9.4
		PMV60EN	30	55	72	4.7	9.4
		PMV117EN	30	117	190	2.5	4.6
		SI2304DS	30	117	190	1.7	4.6
		BSH108	30	120		1.9	6.4
		BSH103	30		400	0.85	2.1
		PMV40UN	30		47	4.9	9.3

Types in **bold red** represent new products

For the most up to date product information, please visit www.nxp.com/mosfets

40V – 55V N-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DS(on) max}$ [$V_{GS} = 10 V$](m Ω)	$R_{DS(on) max}$ [$V_{GS} = 4.5 V$](m Ω)	I_D max (A)	$Q_{g(tot)}$ (nC)
D ² PAK (SOT404) 	PHB101NQ04T	40	8		75	36.6
	PHB191NQ06LT	55	3.7	4.4	75	95.6
	PSMN005-55B	55	5.8		75	
	PHB110NQ06LT	55	7	9.3	75	45
	PHB119NQ06T	55	7.1		75	53
	PHB21N06LT	55	70		19	
	PHB20N06T	55	75		20.3	11
DPAK (SOT428) 	PSMN010-55D	55	10.5		75	
	PHD20N06T	55	77		18	11
Power SO-8 (LFAK) 	PSMN2R6-40YS	40	2.8		100	63
	PSMN3R3-40YS	40	3.3		100	49
	PH4840S	40	4.1		94.5	67
	PSMN4R0-40YS	40	4.2		100	38
	PSMN5R8-40YS	40	5.7		90	28.8
	PSMN8R3-40YS	40	8.6		70	20
	PSMN014-40YS	40	14		46	12
	PH955L	55	8.3	9.9	62.5	42
	PH1955L	55	17.3	21	40	18
PH3855L	55	36	45	24	11.7	
SC-70 (SOT323) 	BSH121	55		4000	0.3	1

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NXP Power solutions make your PC Energy Efficient

MOSFETs for high efficiency power management


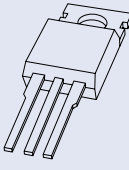

Smaller, faster, cooler

- ▶ Class leading LFAK package with state of the art Trench 6 silicon technology
 - **Smaller:** Power-SO8 form factor LFAK
 - **Faster:** Best in class switching performance
 - **Cooler:** Higher efficiency equals lower temperatures
 - **Easier:** easier to use in development and production than other Power-SO8 packages

High performance MOSFETs for DC-DC converters, OR-ing and load switching

- ▶ Supported by Secure supply/Capacity availability (Silicon & Package)

40V – 55V N-channel MOSFETs

Package	Typenumber	V _{DS} (V)	R _{DSon} max [V _{GS} = 10 V](mΩ)	R _{DSon} max [V _{GS} = 4.5 V](mΩ)	I _D max (A)	Q _{g(tot)} (nC)	
SC-73 (SOT223)		PHT6N06T	55	150		5.5	
		PHT11N06LT	55			10.7	17
		PHT6N06LT	55			5.5	4.5
		PHT8N06LT	55			7.5	11.2
TO-220AB (SOT78)		PSMN2R2-40PS	40	2.1		100	110
		PHP176NQ04T	40	4.3		75	68.9
		PSMN4R5-40PS	40	4.6		100	35
		PHP143NQ04T	40	5.2		75	52
		PSMN8R0-40PS	40	7.6		77	17
		PHP101NQ04T	40	8		75	36.6
		PHP191NQ06LT	55	3.7	4.4	75	95.6
		PSMN005-55P	55	5.8		75	
		PHP110NQ06LT	55	7	9.3	75	45
		PHP119NQ06T	55	7.1		75	53
		PHP54N06T	55	20		54	36
		PHP21N06LT	55	70		19	
		PHP20N06T	55	75		20.3	11
TO-236AB (SOT23)		BSN20	50	15000		0.173	
		BSH111	55		4000	0.335	1

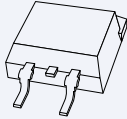





Types in **bold red** represent new products

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Part numbering for NXP Trench 6 MOSFETs

<u>P</u>	<u>S</u>	<u>M</u>	<u>N</u>	<u>1</u>	<u>R</u>	<u>7</u>	-	<u>3</u>	<u>0</u>	<u>Y</u>	<u>S</u>
MOSFET Brand name	MOSFET type N -ch or P -ch	MOSFET on - resistance R _{DSon}	-	MOSFET voltage BV _{DSS}	Package type	Gate threshold voltage					
Power Silicon Max	N = N -ch	R95 = 0.95 mΩ	-	25 = 25 V	B = D ² PAK SOT404	X = Extremely low					
	P = P -ch	1R7 = 1.7 mΩ	-	30 = 30 V	D = DPAK SOT428	L = logic level					
	X = Dual N -ch	014 = 14 mΩ	-	40 = 40 V	E = I ² PAK SOT226	S = standard level					
	X = Dual P -ch	125 = 125 mΩ	-	60 = 60 V	K = SO8 SOT96						
	Z = N -ch + P -ch		-	80 = 80 V	L = QFN3333 SOT873						
			-	100 = 100 V	P = TO220 SOT78						
			-	110 = 110 V	Y = LFPK SOT669 & SOT1023						

60V – 80V N-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DS(on) \max}$ [$V_{GS} = 10 \text{ V}$](m Ω)	$R_{DS(on) \max}$ [$V_{GS} = 4.5 \text{ V}$](m Ω)	$I_D \max$ (A)	$Q_{g(tot)}$ (nC)
D ² PAK (SOT404) 	PSMN004-60B	60	3.6		75	168
	PHB32N06LT	60	37	43	34	17
	PSMN005-75B	75	5		75	165
	PHB160NQ08T	75	5.6		75	91
	PSMN008-75B	75	8.5		75	122.8
	PHB110NQ08T	75	9		75	113.1
	PHB29N08T	75			27	19
Power SO-8 (LFPAK) 	PSMN5R5-60YS	60	5.2		100	56
	PSMN7R0-60YS	60	6.4		89	45
	PSMN8R5-60YS	60	8		76	39
	PSMN012-60YS	60	11.1		59	28.4
	PSMN017-60YS	60	15.7		44	20
	PSMN030-60YS	60	24.7		29	13
	PSMN8R2-80YS	80	8.5		82	55
	PSMN011-80YS	80	11		67	45
	PSMN013-80YS	80	12.9		60	37
	PSMN018-80YS	80	18		45	26
	PSMN026-80YS	80	27.5		34	20
PSMN045-80YS	80	45		24	12.5	
SC-101 (SOT883) 	PMZ760SN	60	900	1600	1.22	1.05
SC-70 (SOT323) 	PMF780SN	60	920	1400	0.57	1.05
	PMF3800SN	60	4500	5300	0.26	0.85
SC-75 (SOT416) 	PMR780SN	60	920	1400	0.55	1.05
SC-88 (SOT363) 	PMGD780SN	60	920	1400	0.49	1.05

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60V – 80V N-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DS(on) max}$ [$V_{GS} = 10 V$](m Ω)	$R_{DS(on) max}$ [$V_{GS} = 4.5 V$](m Ω)	I_D max (A)	$Q_{g(tot)}$ (nC)
TO-220AB (SOT78)	PSMN3R0-60PS	60	3		100	130
	PSMN4R6-60PS	60	4.6		100	70.8
	PSMN7R6-60PS	60	7.8		92	38.7
	PSMN015-60PS	60	14.8		50	20.9
	PHP52N06T	60	22		52	36
	PHP32N06LT	60	37	43	34	17
	PHP3055E	60	150		10.3	5.8
	PHP165NQ08T	75	5		75	165
	PHP160NQ08T	75	5.6		75	91
	PSMN008-75P	75	8.5		75	122.8
	PHP79NQ08LT	75	16	18	73	30
	PHP29N08T	75			27	19
	PSMN4R4-80PS	80	4.1		100	112
	PSMN5R0-80PS	80	4.7		100	87
	PSMN6R5-80PS	80	6.9		100	71
	PSMN8R7-80PS	80	8.7		90	52
	PSMN012-80PS	80	11		74	36
	PSMN017-80PS	80	17		50	26.5
	PSMN050-80PS	80	46		22	9
TO-236AB (SOT23)	2N7002CK	60	1600	4400	0.3	1.09
	2N7002F	60	2000	4000	0.475	0.69
	2N7002E	60	3000	4000	0.385	0.69
	2N7002K	60	3900	5300	0.34	
	2N7002	60	5000	5300	0.3	
	BSH112	60	5000	5300	0.3	
	PMBF170	60	5000	5300	0.3	

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100V – 110V N-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DS(on) max}$ [$V_{GS} = 10 V$](m Ω)	I_D max (A)	$Q_{g(total)}$ (nC)	
D ² PAK (SOT404)		PSMN009-100B	100	8.8	75	156
		PSMN015-100B	100	15	75	90
		PHB45NQ10T	100	25	47	
		PHB47NQ10T	100	28	47	66
		PHB27NQ10T	100	50	28	
		PHB18NQ10T	100	90	18	
DPAK (SOT428)		PSMN025-100D	100	25	47	61
		PHD34NQ10T	100	40	35	
		PHD18NQ10T	100	90	18	
I ² PAK (SOT226)		PSMN7R0-100ES	100	6.8	100	125
		PSMN013-100ES	100	13.9	68	59
Power SO-8 (LFAK)		PSMN012-100YS	100	12	60	64
		PSMN016-100YS	100	16.3	51	54
		PSMN020-100YS	100	20.5	43	41
		PSMN028-100YS	100	27.5	42	33
		PSMN039-100YS	100	39.5	28.1	23
SC-73 (SOT223)		PHT6NQ10T	100	90	6.5	21
		PHT4NQ10T	100	250	3.5	7.4
		BSP110	100		0.52	
		PHT4NQ10LT	100		3.5	
SO8 (SOT96-1)		PHK12NQ10T	100	28	11.6	35
		PSMN038-100K	100	38	6.3	43
		PHKD3NQ10T	100	90	3	

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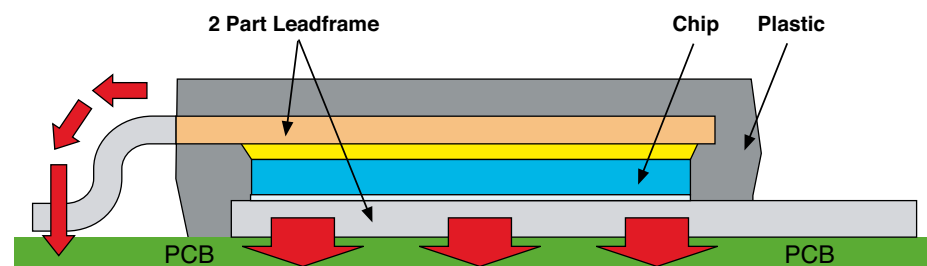
100V – 110V N-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DS(on) max}$ [$V_{GS} = 10 V$](m Ω)	I_D max (A)	$Q_{g(total)}$ (nC)
TO-220AB (SOT78)	PSMN5R6-100PS	100	5.6	100	141
	PSMN7R0-100PS	100	6.8	100	125
	PSMN009-100P	100	8.8	75	156
	PSMN9R5-100PS	100	9.6	89	82
	PSMN013-100PS	100	13.9	68	59
	PSMN015-100P	100	15	75	90
	PSMN016-100PS	100	16	96	49
	PHP45NQ10T	100	25	47	
	PSMN027-100PS	100	26.8	37	30
	PSMN034-100PS	100	34.5	32	23.8
	PHP18NQ10T	100	90	18	
	PHP45NQ11T	105	25	47	60
	PSMN015-110P	110	15	75	90
	PHP27NQ11T	110	50	27.6	30
	PHP23NQ11T	110	70	23	22
PHP18NQ11T	110	90	18	21	
TO-236AB (SOT23)	PMV213SN	100	250	1.9	7
	BSH114	100	500	0.85	4.6
	BSS123	100	6000	0.15	
	BST82	100		0.19	

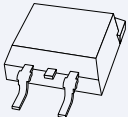
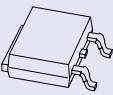



Types in **bold red** represent new products
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Power-SO8 (LFPAK) Design

- ▶ Low Thermal resistance
- ▶ Low Electrical resistance
- ▶ Low Inductance



I50V – 300V N-channel MOSFETs


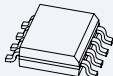
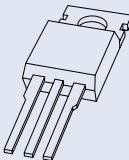
Package	Typenumber	V_{DS} (V)	$R_{DS(on) max}$ [$V_{GS} = 10$ V](m Ω)	I_D max (A)	$Q_{g(tot)}$ (nC)
D ² PAK (SOT404) 	PSMN030-150B	150	30	55.5	
	PSMN035-150B	150	35	50	79
	PHB45NQ15T	150	42	45.1	32
	PSMN057-200B	200	57	39	
	PSMN070-200B	200	70	35	
	PHB33NQ20T	200	77	32.7	32.2
	PHB20NQ20T	200	130	20	
DPAK (SOT428) 	PSMN063-150D	150	63	29	55
	PSMN130-200D	200	130	20	
	PHD9NQ20T	200	400	8.7	
HVSON8 (SOT873-1) 	PML260SN	200	294	8.8	13.3
	PML340SN	220	386	7.3	13.2
Power SO-8 (LFAK) 	PSMN059-150Y	150	59	43	
	PSMN102-200Y	200	102	21.5	
MPT3; UPAK (SOT89) 	BSS87	200	3000	0.4	

For the most up to date product information, please visit www.nxp.com/mosfets

Part numbering for NXP Trench 6 MOSFETs

<u>P</u>	<u>S</u>	<u>M</u>	<u>N</u>	<u>1</u>	<u>R</u>	<u>7</u>	-	<u>3</u>	<u>0</u>	<u>Y</u>	<u>S</u>
MOSFET Brand name	MOSFET type N -ch or P -ch		MOSFET on - resistance $R_{DS(on)}$	MOSFET voltage BV_{DSS}		Package type	Gate threshold voltage				
Power Silicon Max	N = N -ch		R95 = 0.95 m Ω	25 = 25 V		B = D ² PAK SOT404	X = Extremely low				
	P = P -ch		1R7 = 1.7 m Ω	30 = 30 V		D = DPAK SOT428	L = logic level				
	X = Dual N -ch		014 = 14 m Ω	40 = 40 V		E = I ² PAK SOT226	S = standard level				
	X = Dual P -ch		125 = 125 m Ω	60 = 60 V		K = SO8 SOT96					
	Z = N -ch + P -ch			80 = 80 V		L = QFN3333 SOT873					
				100 = 100 V		P = TO220 SOT78					
				110 = 110 V		Y = LFAK SOT669 & SOT1023					

150V – 300V N-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DS(on) max}$ [$V_{GS} = 10 V$](m Ω)	I_D max (A)	$Q_{g(tot)}$ (nC)	
SC-73 (SOT223)		BSP122	200	2500	0.55	
		BSP89	240	5000	0.375	
		BSP126	250	5000	0.375	
		BSP130	300	6000	0.35	
SO8 (SOT96-1)		PHK5NQ15T	150	75	5	29
		PSMN085-150K	150	85	3.5	40
		PSMN165-200K	200	165	2.9	40
TO-220AB (SOT78)		PSMN030-150P	150	30	55.5	
		PSMN035-150P	150	35	50	79
		PHP30NQ15T	150	63	29	55
		PHP28NQ15T	150	65	28.5	24
		PSMN057-200P	200	57	39	
		PSMN070-200P	200	70	35	
		PHP33NQ20T	200	77	32.7	32.2
		PHP20NQ20T	200	130	20	
		PHP9NQ20T	200	400	8.7	

For the most up to date product information, please visit www.nxp.com/mosfets

TrenchMOS - PH types part numbering



<u>P</u>	<u>H</u>	<u>P</u>	<u>4</u>	<u>4</u>	<u>N</u>	<u>Q</u>	<u>0</u>	<u>3</u>	<u>L</u>	<u>T</u>
MOSFET Brand name	Package type	Current rating I_D (A)	MOSFET type N-ch or P-ch		Q-Trench	MOSFET voltage V_{DSS}	Gate threshold voltage	Trench MOS		
PH	B = D ² PAK	44 = 44 A	N = N-ch		Q = low gate charge Q_{GD}	02 = 20 V	'Blank' = Standard level	T = Trench		
PH	D = DPAK	33 = 33 A	P = P-ch			03 = 25 - 30 V	L = logic level			
PH	P = TO220AB	20 = 20 A				06 = 55 - 60 V				
PH	T = SOT223	12 = 12 A				08 = 75 - 80 V				
PH	X = SOT186A (isolated TO220AB)					10 = 100 V				
PH	K = SO8					11 = 110 V				
PH	KD = Dual SO8					15 = 150 V				

P-channel MOSFETs

Package	Typenumber	V_{DS} (V)	$R_{DS(on) max}$ [$V_{GS} = 10 V$](m Ω)	$R_{DS(on) max}$ [$V_{GS} = 4.5 V$](m Ω)	I_D max (A)	$Q_{g(tot)}$ (nC)
MPT3; UPAK (SOT89)	BSS192	-240	12000		-0.2	
SC-73 (SOT223)	BSP250	-30	250	400	-3	
	BSP220	-200	12000		-0.225	
	BSP225	-250	15000		-0.225	
	BSP230	-300	17000		-0.21	
SC-74 (SOT457)	BSH207	-12		120	-1.52	8.8
	PMN50XP	-20		60	-4.8	10
SO8 (SOT96-1)	PHK04P02T	-16		120	-4.66	
	PMK50XP	-20		50	-7.9	
	PHP225	-30	250		-2.3	
	PMK30EP	-30	19		-14.9	
	PMK35EP	-30	19		-14.9	
TO-236AB (SOT23)	BSH205	-12		400	-0.75	3.8
	PMV65XP	-20		76	-3.9	7.6
	BSH202	-30	900	1350	-0.52	2.9
	BSH203	-30		900	-0.47	2.2
	BSS84	-50	10000		-0.13	
	BSH201	-60	2500	3750	-0.3	3






For the most up to date product information, please visit www.nxp.com/mosfets

Multi-chip MOSFETs

Package	Typenumber	$V_{DS}(V)$	$R_{DS(on)}$ [max] [m Ω] @ $V_{GS} = 10 V$	$R_{DS(on) max}$ [$V_{GS} = 4.5 V$](m Ω)	I_D [max] [A] @ 25 °C	Configuration
SO8 (SOT96-1) 	PHKD6N02LT	20		20 @ 5 V	10.9	dual N-channel
	PHKD13N03LT	30	20	26	10.4	dual N-channel
	PHN203	30	30		6.3	dual N-channel
	PHC21025	30, -30	100, 250		3.5, -2.3 @ 80 °C	complementary pair
	PHP225	-30	250		-2.3 @ 80 °C	dual P-channel
	PHKD3NQ10T	100	90		3	dual N-channel
	PHKD3NQ10T	300, -300	6000, 17000		0.34, -0.235 @ 80 °C	complementary pair
SC-88 (SOT363) 	PMGD290XN	20		350	0.86	dual N-channel
	PMGD370XN	30		440	0.74	dual N-channel
	PMGD400UN	30		480	0.71	dual N-channel
	PMGD8000LN	30		8000 @ 4 V	0.125	dual N-channel
	PMGD780SN	60	920	1400	0.49	dual N-channel

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30V N-channel Automotive TrenchMOS






R_{DSon} (max) @ 10 V (m Ω)	R_{DSon} (max) @ 5 V (m Ω)	I_D (max) @ 25 °C (A)	$R_{th(j-mb)}$ (max) (K/W)	3-lead TO-220AB (SOT78A)	I ² PAK (SOT226)	D ² PAK (SOT404)	PAK (SOT428)	LPAK (SOT669)
								
				15.5 x 10.0 x 4.3	11.0 x 10.0 x 4.3	11.0 x 10.0 x 4.3	6.0 x 6.6 x 2.3	3.95 x 4.9 x 1.1
1.6						<u>BUK661R6-30C</u>		
1.8		100	0.45			BUK761R8-30C		
1.8		100	0.57			<u>BUK661R8-30C</u>		
2			0.45	<u>BUK652R0-30C</u>	<u>BUK6E2R0-30C</u>			
2.1			0.59	<u>BUK652R1-30C</u>				
2.4	2.8	75	0.5	BUK952R8-30B		BUK962R8-30B		
2.5			0.74			<u>BUK662R5-30C</u>		
2.7		75	0.5	BUK752R7-30B	BUK7E2R7-30B	BUK762R7-30B		
2.7			0.74	<u>BUK652R7-30C</u>				
3	4	75	0.59		BUK9E04-30B			
3.4		75	0.59	BUK753R4-30B		BUK763R4-30B		
3.5			0.95			<u>BUK663R5-30C</u>		
3.7			0.95	<u>BUK653R7-30C</u>				
4.2	7	75	1.42					<u>BUK9Y07-30B</u>
4.5							<u>BUK624R5-30C</u>	
4.5		75	0.95				<u>BUK724R5-30C</u>	
4.6	5	75	0.65	BUK9505-30A		BUK9605-30A		
5	7	75	0.95	BUK9507-30B		BUK9607-30B	BUK9207-30B	
7							<u>BUK6207-30C</u>	
7		75	1.42					<u>BUK7Y07-30B</u>
7		75	0.95	BUK7507-30B		BUK7607-30B	BUK7207-30B	
9							<u>BUK6209-30C</u>	
9	11	59	2					BUK9Y11-30B
10		66	1.76					<u>BUK7Y10-30B</u>
11	13	75	1				BUK9213-30A	
12	14	63	1.4				BUK9214-30A	
13							<u>BUK6213-30C</u>	
13		55	1.4				BUK6213-30A	
13.7	22	37	2.53					<u>BUK9Y22-30B</u>
20		39	2.53					<u>BUK7Y20-30B</u>

Types in **bold red** represent new products

Types in **bold red italic underline** represent products in development

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40V N-channel Automotive TrenchMOS

R_{DSon} (max) @ 10 V (mΩ)	R_{DSon} (max) @ 5 V (mΩ)	I_D (max) @ 25 °C (A)	$R_{th(j-mb)}$ (max) (K/W)	3-lead TO-220AB (SOT78A)	I ² PAK (SOT226)	D ² PAK (SOT404)	DPAK (SOT428)	LFPAK (SOT669)
								
				15.5 x 10.0 x 4.3	11.0 x 10.0 x 4.3	11.0 x 10.0 x 4.3	6.0 x 6.6 x 2.3	3.95 x 4.9 x 1.1
1.9		100	0.45			<u>BUK661R9-40C</u>		
2						BUK762R0-40C		
2.3		100	0.45	<u>BUK652R3-40C</u>	<u>BUK6E2R3-40C</u>			
2.3		100	0.45	BUK752R3-40C	BUK7E2R3-40C			
2.4			0.59			<u>BUK662R4-40C</u>		
2.6		100	0.59	<u>BUK652R6-40C</u>				
2.8	3.2	100	0.5	BUK953R2-40B	BUK9E3R2-40B	BUK963R2-40B		
3.1		75	0.5	BUK753R1-40B		BUK763R1-40B		
3.2		100	0.74			<u>BUK663R2-40C</u>		
3.4		100	0.74	<u>BUK653R4-40C</u>	<u>BUK6E3R4-40C</u>			
3.6		100	0.74			<u>BUK763R6-40C</u>		
4	4.4	75	0.5	BUK9504-40A	BUK9E04-40A	BUK9604-40A		
4	4.4	75	0.59	BUK954R4-40B	BUK9E4R4-40B	BUK964R4-40B		
4		100	0.74	<u>BUK754R0-40C</u>				
4		75	0.74			BUK764R0-40C		
4.3		75	0.59	BUK754R3-40B		BUK764R3-40B		
4.5		75	0.5	BUK7504-40A	BUK7E04-40A	BUK7604-40A		
4.6			0.95			<u>BUK664R6-40C</u>		
4.8			0.95	<u>BUK654R8-40C</u>				
5	6.4	75	0.74	BUK9506-40B		BUK9606-40B		
5			0.95				<u>BUK625R0-40C</u>	
5		75	0.95				<u>BUK725R0-40C</u>	
5.2		75	0.74	BUK755R2-40B		BUK765R2-40B		
6.2	9	37	1.42					<u>BUK9Y09-40B</u>
7	9	75	0.95	BUK9509-40B		BUK9609-40B	BUK9209-40B	
7		75	0.95				<u>BUK7207-40B</u>	
8		75	0.95	BUK7508-40B		BUK7608-40B		
8		75	1.42					<u>BUK7Y08-40B</u>
8		50	1.17				BUK6208-40C	
8		75	0.95				BUK7208-40B	
11	14	56	1.8					BUK9Y14-40B
12							<u>BUK6212-40C</u>	
13		58	1.8					BUK7Y13-40B
18							<u>BUK6218-40C</u>	
18.7	27	34	2.53					<u>BUK9Y27-40B</u>
25		35	2.53					<u>BUK7Y25-40B</u>

Types in **bold red** represent new products







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Automotive TrenchMOS part numbering

<u>B</u>	<u>U</u>	<u>K</u>	<u>6</u>	<u>6</u>	<u>1</u>	<u>R</u>	<u>8</u>	-	<u>3</u>	<u>0</u>	<u>C</u>
MOSFET Brand name	Gate threshold voltage level	Package type	MOSFET type N-ch or P-ch	-	MOSFET voltage BVDSS	Trench Generation					
NXP Automotive MOSFET	6 = Intermediate Level	2 = DPAK SOT428	1R8 = 1.8 mΩ	-	30 = 30 V	Blank = Generation 1					
	7 = Standard Level	5 = TO220 SOT78	12 = 12 mΩ	-	40 = 40 V	A = Generation 2					
	9 = Logic Level	6 = D ² PAK SOT404	150 = 150 mΩ	-	55 = 55 V	B = Generation 3					
		8 = SOT223		-	75 = 75 V	C = Generation 4					
		C = 7 Pin D ² PAK		-	100 = 100 V						
		E = I ² PAK SOT226		-	150 = 150 V						
		Y = LFPAK SOT669									

55 V N-channel Automotive TrenchMOS







$R_{DS(on)}$ (max) @ 10 V (m Ω)	$R_{DS(on)}$ (max) @ 5 V (m Ω)	I_D (max) @ 25 °C (A)	$R_{th(j-mb)}$ (max) (K/W)	3-lead TO-220AB (SOT78A)	I ² PAK (SOT226)	D ² PAK (SOT404)	DAK (SOT428)	LFAK (SOT669)	SC-73 (SOT223)
									
				15.5 x 10.0 x 4.3	11.0 x 10.0 x 4.3	11.0 x 10.0 x 4.3	6.0 x 6.6 x 2.3	3.95 x 4.9 x 1.1	6.5 x 3.5 x 1.65
2.7			0.45			<i>BUK662R7-55C</i>			
3.2			0.45	<i>BUK653R2-55C</i>	<i>BUK6E3R2-55C</i>				
3.5			0.59	<i>BUK653R5-55C</i>		<i>BUK663R5-55C</i>			
3.7	4.2	75	0.5	BUK954R2-55B		BUK964R2-55B			
4		75	0.5			BUK764R0-55B			
4		75	0.5	BUK754R0-55B					
4.4						<i>BUK664R4-55C</i>			
4.6			0.74	<i>BUK654R6-55C</i>					
5.4	6	75	0.58	BUK9506-55B	BUK9E06-55B	BUK9606-55B			
5.8	6.3	75	0.58		BUK9E06-55A	BUK9606-55A			
6		75	0.59	BUK7506-55B		BUK7606-55B			
6.3		75	0.5	BUK7506-55A		BUK7606-55A			
7	8.4	75	0.74	BUK9508-55B	BUK9E08-55B	BUK9608-55B			
7			0.95	<i>BUK6507-55C</i>		<i>BUK6607-55C</i>			
7							<i>BUK6207-55C</i>		
7.1		75	0.74	BUK7507-55B	BUK7E07-55B	BUK7607-55B			
7.5	8	75	0.59			BUK9608-55A			
8	9	75	0.71			BUK9609-55A			
8		75	0.59	BUK7508-55A		BUK7608-55A			
9	10	75	0.75	BUK9510-55A		BUK9610-55A			
9		75	0.71	BUK7509-55A		BUK7609-55A			
9.2	12	65	1.42					<i>BUK9Y12-55B</i>	
10	11	75	0.9	BUK9511-55A		BUK9611-55A			
10	12	75	0.95	BUK9512-55B		BUK9612-55B	BUK9212-55B		
10							<i>BUK6210-55C</i>		
10		75	0.5	BUK7510-55AL		BUK7610-55AL	BUK7210-55B		
11		75	0.95	BUK7511-55B	BUK7E11-55B	BUK7611-55B			
12		75	0.95				BUK7212-55B		
12		64	1.42					<i>BUK7Y12-55B</i>	
13	14	73	1	BUK9514-55A		BUK9614-55A			
13.6	15	62	1.3				BUK9215-55A		
14		73	0.9	BUK7514-55A		BUK7614-55A			
15	16	66	1.1	BUK9516-55A					
15		62	1.3				BUK7215-55A		
16	18	61	1.1	BUK9518-55A		BUK9618-55A			
16		65	1.1	BUK7516-55A					

Types in **bold red** represent new products

Types in **bold red italic underline** represent products in development

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55 V N-channel Automotive TrenchMOS






R_{DSon} (max) @ 10 V (m Ω)	R_{DSon} (max) @ 5 V (m Ω)	I_D (max) @ 25 °C (A)	$R_{th(j-mb)}$ (max) (K/W)	3-lead TO-220AB (SOT78A)	I ² PAK (SOT226)	D ² PAK (SOT404)	DDPAK (SOT428)	LFPACK (SOT669)	SC-73 (SOT223)
									
				15.5 x 10.0 x 4.3	11.0 x 10.0 x 4.3	11.0 x 10.0 x 4.3	6.0 x 6.6 x 2.3	3.95 x 4.9 x 1.1	6.5 x 3.5 x 1.65
17							<i>BUK6217-55C</i>		
17.3	19	46	1.8					<u>BUK9Y19-55B</u>	
17.6	19	55	1.3				BUK9219-55A		
18	20	54	1.2	BUK9520-55A		BUK9620-55A			
18		47	1.76					<i>BUK7Y18-55B</i>	
19		55	1.3				BUK7219-55A		
20	22	48	1.5				BUK9222-55A		
20		54	1.2	BUK7520-55A		BUK7620-55A			
21.7	24	46	1.4	BUK9524-55A		BUK9624-55A			
22	25	43	1.6				BUK9225-55A		
22		48	1.5				BUK7222-55A		
25	28	42	1.56			BUK9628-55A			
25		43	1.6				BUK7225-55A		
27	30	38	1.7				BUK9230-55A		
28							<i>BUK6228-55C</i>		
28		42	1.5	BUK7528-55A		BUK7628-55A			
29	32	12	15						BUK9832-55A
30		38	1.7				BUK7230-55A		
32	35	34	1.8	BUK9535-55A		BUK9635-55A			
33	37	32	1.94				BUK9237-55A		
35		35	1.75	BUK7535-55A		BUK7635-55A			
35		28	2.53					<i>BUK7Y35-55B</i>	
36	40	26	2.5					BUK9Y40-55B	
37		32	1.9				BUK7237-55A		
40	45	28	2.1				BUK9245-55A		
68	75	20	2.4	BUK9575-55A		BUK9675-55A			
69	77	18	3				BUK9277-55A		
73	80	7	15						BUK9880-55A
75		20	2.4	BUK7575-55A		BUK7675-55A			
77		18	2.9				BUK7277-55A		
80		7	15						BUK7880-55A
125	140	11	4.1				BUK92150-55A		
137	150	13	2.8	BUK95150-55A					
137	150	5.5	15						BUK98150-55A
150		11	4.1	BUK75150-55A			BUK72150-55A		
150		5.5	15						BUK78150-55A

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75 V N-channel Automotive TrenchMOS

$R_{DS(on)}$ (max) @ 10 V (m Ω)	$R_{DS(on)}$ (max) @ 5 V (m Ω)	I_D (max) @ 25 °C (A)	$R_{th(j-mb)}$ (max) (K/W)	3-lead TO-220AB (SOT78A)	I ² PAK (SOT226)	D ² PAK (SOT404)	DPAK (SOT428)	LFPAK (SOT669)
								
				15.5 x 10.0 x 4.3	11.0 x 10.0 x 4.3	11.0 x 10.0 x 4.3	6.0 x 6.6 x 2.3	3.95 x 4.9 x 1.1
3.7			0.45			<u>BUK663R7-75C</u>		
4			0.45	<u>BUK654R0-75C</u>	<u>BUK6E4R0-75C</u>			
4		100	0.45			BUK764R0-75C		
4.3		100	0.45	BUK754R3-75C	BUK7E4R3-75C			
4.8			0.59			<u>BUK664R8-75C</u>		
5			0.59	<u>BUK655R0-75C</u>				
5.5	6.1	75	0.5	BUK9506-75B		BUK9606-75B		
5.6		75	0.5	BUK7506-75B		BUK7606-75B		
7		100	0.74	<u>BUK6507-75C</u>		BUK6607-75C		
8.5	9	75	0.65	BUK9509-75A		BUK9609-75A		
9		75	0.65	BUK7509-75A		BUK7609-75A		
10		71	0.95	<u>BUK6510-75C</u>		<u>BUK6610-75C</u>		
11							<u>BUK6211-75C</u>	
13		75	0.95	BUK7513-75B		BUK7613-75B		
14	16.4	67	0.95	BUK9516-75B		BUK9616-75B		
14		70	0.95				BUK7214-75B	
15	17	64	0.95				BUK9217-75B	
15							<u>BUK6215-75C</u>	
16.2	19	48	1.42					<u>BUK9Y19-75B</u>
18		49	1.42					<u>BUK7Y18-75B</u>
22	23	53	1.1	BUK9523-75A		BUK9623-75A		
23		53	1.1	BUK7523-75A		BUK7623-75A		
24.6	26	45	1.3				BUK9226-75A	
26							<u>BUK6226-75C</u>	
26		45	1				BUK7226-75A	
28	30	34	1.8					BUK9Y30-75B
28		35	1.76					<u>BUK7Y28-75B</u>
40							<u>BUK6240-75C</u>	
49.8	58	20	2.53					<u>BUK9Y58-75B</u>
54		21	2.53					<u>BUK7Y54-75B</u>






^[1] These products use SOT78B package

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100V N-channel Automotive TrenchMOS

$R_{DS(on)}$ (max) @ 10 V (m Ω)	$R_{DS(on)}$ (max) @ 5 V (m Ω)	I_D (max) @ 25 °C (A)	$R_{th(j-mb)}$ (max) (K/W)	3-lead TO-220AB (SOT78A) 	D ² PAK (SOT404) 	DPAK (SOT428) 	LFPAK (SOT669) 	SC-73 (SOT223) 
				15.5 x 10.0 x 4.3	11.0 x 10.0 x 4.3	6.0 x 6.6 x 2.3	3.95 x 4.9 x 1.1	6.5 x 3.5 x 1.65
9.7	10	75	0.5	BUK9510-100B	BUK9610-100B			
10		75	0.5	BUK7510-100B	BUK7610-100B			
14.4	15	75	0.65	BUK9515-100A	BUK9615-100A			
15		75	0.65	BUK7515-100A				
18.5	20	63	0.75	BUK9520-100B	BUK9620-100B			
19		64	0.75		BUK7619-100B			
19	20	63	0.75	BUK9520-100A				
20		63	0.75	BUK7520-100A	BUK7620-100A			
26		49	0.95	BUK7526-100B	BUK7626-100B			
27	28	49	0.9		BUK9628-100A			
27		48	0.95			BUK7227-100B		
27	29	46	0.95	BUK9529-100B	BUK9629-100B			
28	30	47	0.95			BUK9230-100B		
28		47	0.9	BUK7528-100A	BUK7628-100A			
33		35	1.42				BUK7Y33-100B	
34	35	41	1	BUK9535-100A	BUK9635-100A		BUK9Y34-100B	
35		41	1	BUK7535-100A	BUK7635-100A			
38.6	40	33	1.3			BUK9240-100A		
39	40	39	0.95		BUK9640-100A			
40		37	1.1	BUK7540-100A	BUK7640-100A			
40		34	1.3			BUK7240-100A		
49	53	23	2				BUK9Y53-100B	
53		24	1.76				<u>BUK7Y53-100B</u>	
58	60	26	1.4		BUK9660-100A			
60		26	1.4		BUK7660-100A			
72	75	23	1.5	BUK9575-100A	BUK9675-100A			
72	75	21	1.7			BUK9275-100A		
72	75	7	15					BUK9875-100A
75		23	1.5	BUK7575-100A	BUK7675-100A			
75		21	1.7			BUK7275-100A		
95.7	104	14	2.53				BUK9Y104-100B	
102		15	2.53				BUK7Y102-100B	
173	180	11	2.8	BUK95180-100A	BUK96180-100A			
173	180	4.6	15					BUK98180-100A

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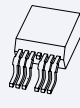
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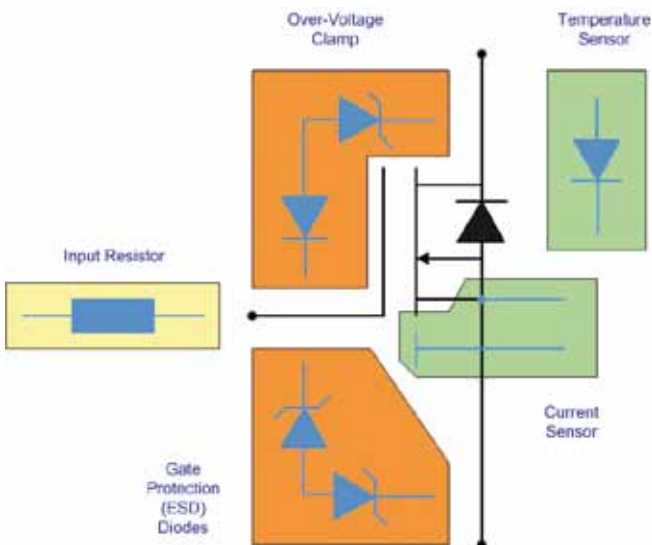
TrenchPLUS MOSFETs

TrenchPLUS is a range of standard MOSFETs with additional protection features, such as current and temperature sensing components, overvoltage clamps, and gate protection (ESD) diodes. The system microcontroller can use data gathered from


these sensors to implement cost-effective protection features, thus eliminating the need to design with protected power devices. All the standard products listed below offer one or more "PLUS" features. Custom versions can be developed for high-volume applications.

V _{DS} (V)	R _{DS(on)} (max) @10 V (mΩ)	R _{DS(on)} (max) @5 V (mΩ)	I _D (max) @25 °C (A)	Temp Sense	Gate Source Clamps	Gate Drain Clamps	Current Sensing	Gate Resistor	Surface Mount Package			Leaded Package	
									SOT427 (7-pin D ² PAK)	SOT426 5-pin (D ² PAK)	SOT163 (SO20)	SOT78C (TO220AB)	SOT263B-01 (5-pin TO220)
													
								11.0 x 10.0 x 4.3	11.0 x 10.0 x 4.3	15.0 x 10.0 x 4.5	15.0 x 10.0 x 4.5	15.0 x 10.0 x 4.5	
34	3.3		75		✓	✓		✓				BUK7L3R3-34BRC	
34	6		75		✓	✓		✓				BUK7L06-34ARC	
34	11		75		✓	✓		✓				BUK7L11-34ARC	
40	4.1		75	✓						BUK714R1-40BT			BUK794R1-40BT
40	5		75		✓		✓			BUK7105-40AIE			BUK7905-40AIE
40	5		75	✓	✓					BUK7105-40ATE			BUK7905-40ATE
40	5		75				✓						BUK7905-40AI
40	6		75	✓	✓		✓		BUK7C06-40AITE				
40	6.6	7	75	✓	✓	✓				BUK9107-40ATC			BUK9907-40ATC
40	7		75	✓	✓	✓				BUK7107-40ATC			BUK7907-40ATC
40	8		75		✓		✓			BUK7108-40AIE			BUK7908-40AIE
55	6.6	7	75	✓	✓					BUK9107-55ATE			BUK9907-55ATE
55	7		75		✓		✓			BUK7107-55AIE			BUK7907-55AIE
55	7		75	✓	✓					BUK7107-55ATE			BUK7907-55ATE
55	8		75	✓	✓		✓		BUK7C08-55AITE				
55	9	10	75	✓			✓		BUK9C10-55BIT				

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TrenchPLUS MOSFETs

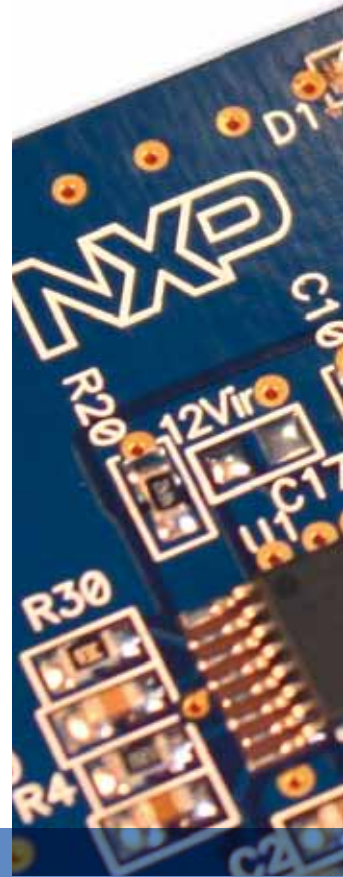
V _{DS} (V)	R _{DSon} (max) @10 V (mΩ)	R _{DSon} (max) @5 V (mΩ)	I _D (max) @25 °C (A)	Temp Sense	Gate Source Clamps	Gate Drain Clamps	Current Sensing	Gate Resistor	Surface Mount Package			Leaded Package	
									SOT427 (7-pin D ² PAK)	SOT426 (5-pin D ² PAK)	SOT163 (SO20)	SOT78C (TO220AB)	SOT263B-01 (5-pin TO220)
													
								11.0 x 10.0 x 4.3	11.0 x 10.0 x 4.3	13.0 x 7.5 x 2.65	15.0 x 10.0 x 4.5	15.0 x 10.0 x 4.5	
55	9+23	10+25	17+9	✓			✓				BUK9MGP-55PTS		
55	14+14	15+15	13+13	✓			✓				BUK9MJJ-55PSS		
55	14+14	15+15	13+13	✓			✓				BUK9MJJ-55PTT		
55	14+90	15+100	13+4	✓			✓				BUK9MJT-55PRF		
55	23+23	25 + 25	9+9	✓			✓				BUK9MPP-55PRR		
55	27+27	30+30	8+8	✓			✓				BUK9MMM-55PNN		
55	45+45	50+50	6+6	✓			✓				BUK9MLL-55PLL		
55	56+56	65+65	5+5	✓			✓				BUK9MRR-55PGG		
65	6.5	7	75	✓			✓			BUK9C07-65BIT			
65	9.2	10	75	✓			✓			BUK9C10-65BIT			
65	11+11	12+12	15+15	✓			✓				BUK9MHH-65PNN		
65	13+13	14+14	13+13	✓			✓				BUK9MFF-65PSS		
65	16+16	17+17	11+11	✓			✓				BUK9MJJ-65PLL		
65	25+25	27+27	8+8	✓			✓				BUK9MPP-65PLL		
65	33+33	36+36	7+7	✓			✓				BUK9MNN-65PKK		
65	61+61	67+67	5+5	✓			✓				BUK9MRR-65PKK		
65	90+90	100+100	4+4	✓			✓				BUK9MTT-65PBB		
75	7		75	✓	✓						BUK7109-75ATE		BUK7909-75ATE
75	9		75		✓		✓				BUK7109-75AIE		BUK7909-75AIE
75	10		75	✓	✓		✓			BUK7C10-75AITE			

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Automotive TrenchPLUS part numbering

<u>B</u>	<u>U</u>	<u>K</u>	<u>7</u>	<u>C</u>	<u>0</u>	<u>8</u>	-	<u>5</u>	<u>5</u>	<u>A</u>	<u>I</u>	<u>T</u>	
MOSFET Brand name			Gate threshold voltage level	Package type	MOSFET on-resistance R _{DSon}		-	MOSFET voltage B _{VDSS}		Trench Generation	"Plus" Features		
NXP Automotive MOSFET			6 = Intermediate Level	1 = 5 Pin D ² PAK SOT426	R95 = 0.95 mΩ		-	30 = 30 V		Blank = Generation 1	C = Gate-Drain & Gate-Source Clamps		
			7 = Standard Level	9 = 5 Pin TO220 SOT 263B	1R8 = 1.8 mΩ		-	40 = 40 V		A = Generation 2	E = ESD Protection		
			9 = Logic Level	C = 7 Pin D ² PAK SOT427	12 = 12 mΩ		-	55 = 55 V		B = Generation 3	I = Current Sensor		
				L = TO220 SOT78C	150 = 150 mΩ		-	75 = 75 V		C = Generation 4	R = Gate Resistor		
					M=SO20 SOT163			-	100 = 100 V			T = Temperature Sensor	
								-	150 = 150 V				



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