

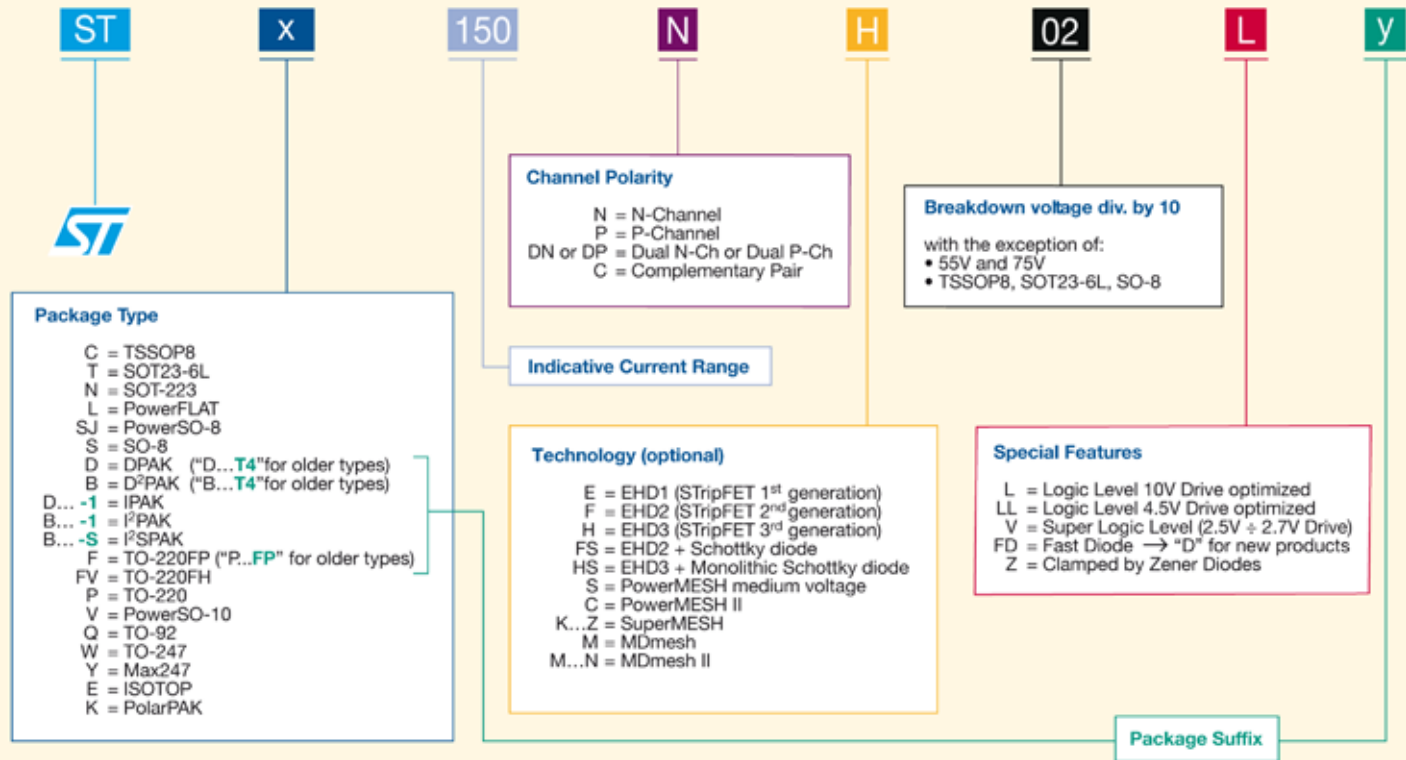
Power MOSFETs

Selection guide



October 2006

Nomenclature



MDmesh™

V _{DSS} [V]	R _{DS(on)} [Ω] max @ 10V	Part number	I _{D(cont)} [A]	Q _g [nC] typ @ 10V	T _{rr} [ns] typ	Q _{rr} [μs] typ	I _{rrm} [A] typ	dv/dt [V/ns]	PowerFLAT 6 x 5	DPAK	IPAK	D ² PAK	⊥ ² PAK	T0-220	T0-220FP	T0-247	Max247	ISOTOP
200	0.105	STD22NM20NT4	20	32	160	960	12.8	14		■								
	0.105	STL20NM20N	20	32	160	960	12.8	10	■									
	0.050	STE70NM50	70	190	532	9.9	37	15										■
	0.050	STY60NM50	60	190	532	9.9	37	15									■	
500	0.100	STE48NM50	48	87	520	7.8	30	15										■
	0.100	STW45NM50	45	87	520	7.8	30	15										
	0.120	STW26NM50	30	76	400	5.5	27.5	15										■
	0.140	STx25NM50Ny	22	84	460	6.9	30	15				B	B...-1	P	F	W		
	0.190	STx21NM50Ny	18	65	360	5	27	15				B	B...-1	P	F	W		
	0.380	STx12NM50N	10.1	30	340	3.5	20	25		D		B		P	F			
	0.560	STx9NM50Ny*	7.5	24						D	D...-1			P	F			
	0.780	STx7NM50Ny*	5	17						D	D...-1			P	F			
600	0.055	STE70NM60	70	178	600	14.4	48	15										■
	0.055	STY60NM60	60	178	600	14.4	48	15									■	
	0.110	STW45NM60	45	96	508	10	40	15										■
	0.135	STW26NM60	30	73	73	45	30.5	15										■
	0.170	STx25NM60Ny	20	84	427	7.2	33.6	15				B	B...-1	P	F	W		
	0.240	STx21NM60Ny	17	67	372	4.6	24.8	15				B	B...-1	P	F	W		
	0.450	STx11NM60y	11	30	390	3.8	19.5	15				B...T4	B...-1					
	0.450	STx11NM60Ny*	10	31				45		D	D...-1			P	F			
	0.650	STx8NM60Ny*	6.8	24						D	D...-1			P				
	0.900	STx6NM60Ny*	5	17						D	D...-1			P	F			
650	1.500	STx3NM60y	3	10						D...T4	D...-1							
800	0.380	STx11NM65Ny*	11	60								B...-1	P	F	W			
800	0.400	STx11NM80y	11	40	612	7.22	23.6					B...T4	P	F	W			
	0.950	STx7NM80y*	6.5						D	D...-1			P	F				

*Coming soon Second generation MDmesh in blue characters

FDmesh™ and SuperFREDmesh™

V _{DSS} [V]	R _{DS(on)} [Ω] max @ 10V	Part number	I _{D (cont)} [A]	Q _g [nC] typ @ 10V	T _{rr} [ns] typ	Q _{rr} [μs] typ	I _{rrm} [A] typ	dv/dt [V/ns]	PAK	IPAK	D ² PAK	IPAK	TO-220	TO-220FP	TO-247	ISOTOP	
500	0.10	STW45NM50FD	45	92	245	2.2	18	20								■	
	0.15	STW29NK50ZD*	29	180	264	2.08	15.7	15								■	
	0.25	STx20NM50FDy	20	38	175	1.2	14	20			B...T4		P			W	
	0.40	STW14NM50FD	14	27.5	116	0.46	8	20									■
	0.40	STx12NM50FDy	12	27.5	116	0.46	8	20			B...T4		P	P...FP			
520	2.70	STx4NK50ZDy	3	12	73	139	3.8	15	D	D...-1			P	F			
	1.50	STx5NK52ZDy	4.4	20	97.7	300	5.9	15	D	D...-1		B...-1	P				
600	0.29	STx20NM60FD	20	40	170	1.06	12.5	20					P			W	
	0.45	STx11NM60FDy	11	28	190	1.1	14.5	20				B...T4	P	P...FP			
	0.45	STx11NM60FDy	11	28	190	1.1	14.5	20				B...T4	P	P...FP			
	0.95	STB9NK60ZDT4	7	41	150	0.663	8.5	15				■					
	0.95	STx9NK60ZDy	7	41	150	0.663	8.5	15				B...T4	P	F			
	1	STx8NM60D	8	16	107	330	6	20				B	P				
800	0.13	STE45NK80ZD	45	558	375	4.65	24.8	8								■	
900	0.17	STE40NK90ZD	40	590	450	9.6	16.2	8								■	

-60V to -30V

V _{DSS} [V]	R _{DS(on)} [Ω] max @ 10V	Part number	I _{D (cont)} [A]	R _{DS(on)} [Ω] max @ 2.7V	R _{DS(on)} [Ω] max @ 4.5V	Q _g [nC] typ @ 4.5V	Q _g [nC] typ @ 10V	TSSOP8	SOT-223	SO-8	PAK	IPAK	D ² PAK	TO-220	TO-220FP	
-60	0.120	STB16PF06LT4	-16		0.160	12	23.5								■	
	0.200	STx12PF06	-12				16								P	F
	0.200	STx10PF06y	-10				16				D...T4	D...-1				
	0.200	STN3PF06	-2.5				16		■							
	0.250	STT2PF60L	-2		0.300	5	10	■								
-55	0.018	STx80PF55y	-80				190							D...-1	P	
	0.014	STS10PF30L	-10		0.018	29				■						
-30		STS7PF30L	-7		0.028	28	60			■						
	0.028	STx30PF03Ly	-24		0.040	18.5	35				D...T4	D...-1				
	0.030	STS6PF30L	-6		0.040	18.5	35			■						

*Coming soon

-30V cont'd to 24V

V _{DSS} [V]	R _{DS(on)} [Ω] max @ 10V	Part number	I _{D(cont)} [A]	R _{DS(on)} [Ω] max @ 2.7V	R _{DS(on)} [Ω] max @ 4.5V	Q _g [nC] typ @ 4.5V	Q _g [nC] typ @ 10V	SOT23-6L	TSSOP8	SOT-223	S0-8	DPAK	IPAK	D ² -PAK	PowerSO-10	T0-220	
-30	0.055	STS8C5H30L	-4		0.075	12.5	24				■						
	0.055	STS4DPF30L	-4		0.075	12.5	24				■						
	0.055	STS5PF30L	-5		0.075	12.5	24				■						
	0.140	STS4PF30L	-3.4		0.190	4.8	11				■						
	0.165	STT3PF30L	-3		0.200	4.8	11	■									
-20	0.055	STS4DPF20L	-4		0.075	12.5	24				■						
		STT4PF20V	-4	0.135	0.110	6.2		■									
		STS5PF20V	-5	0.1	0.080	9.3					■						
		STS2DPFS20V	-2	0.25	0.200	3.8					■						
		STT5PF20V	-5	0.1	0.080	9.3											
		STN5PF02V	-5	0.1	0.080	9.3				■							
		STS3DPF20V	-3	0.135	0.110	6.2					■						
20	0.0025	STV160NF02LT4	160		0.006		115								■		
		STS5DNF20V	5	0.045	0.040	8.5					■						
		STS6NF20V	6	0.045	0.040	8.5											
		STC5NF20V	5	0.045	0.040	8.5				■							
24	0.0035	STx150NH02Ly	150		0.0065		69					D...T4	D...-1				
	0.0044	STP130NH02L	90		0.008		69									■	
	0.0048	STD100NH02LT4	60		0.009		62					■					
	0.0050	STx95NH02Ly	80		0.009	17	43					D...T4	D...-1				
	0.0060	STB100NH02LT4	80		0.011		47.5					■					
	0.0060	STx90N02Ly	60		0.011	17	32					D...T4	D...-1				
	0.0080	STx70N02Ly	60		0.014		24					D...T4	D...-1				
	0.0105	STB60NH02LT4	60		0.020		24								■		
	0.0105	STD50NH02LT4	50		0.020		24					■					
	0.0110	STx55NH2LLy	40		0.0135		9	20				D...T4	D...-1				
	0.0135	STD38NH02LT4	38		0.025			18				■					
0.0135	STD38NH02LT4	38		0.030			20				■						

30V

V_{DSS} [V]	$R_{DS(on)}$ [Ω] max @ 10V	Part number	$I_{D(cont)}$ [A]	$R_{DS(on)}$ [Ω] max @ 4.5V	Q_g [nC] typ @ 4.5V	Q_g [nC] typ @ 10V	PowerFLAT 6 x 5	PowerSO-8	SO-8	PAK	IPAK	D ² PAK	I ² PAK	PowerSO-10	TO-220	TO-247	PolarPAK	
30	0.0028	STW200NF03	120			225											■	
	0.0028	STV160NF03LT4	160	0.0067		103								■				
	0.0030	STV160NF03LAT4	160	0.0070		123								■				
	0.0032	STx100NF03L-03y	100	0.0045		160						B...T4	B...-1					
	0.0035	STK850	30	0.0043		32.5											■	
	0.0035	STS25NH3LL	25	0.0050	30	70			■									
	0.0035	STSJ100NH3LL	100	0.0050	30	70			■									
	0.0036	STx200NF03y	120			113						B...T4				P		
	0.0040	STx80NF03L-04y	80	0.0055		150						B...T4	B...-1			P		
	0.0042	STS20NHS3LL	20	0.0057	27.5				■									
	0.0042	STSJ100NHS3LL	100	0.0057	27.5				■									
	0.0055	STP120NH03L	9	0.0105		57					■							
	0.0055	STS17NF3LL	17	0.0070	26	55			■								■	
	0.0055	STD100NH03LT4	60	0.0105		57					■							
	0.0055	STx100N03Ly	80	0.0100	20							D...T4	D...-1					
	0.0057	STx90N03Ly*	80	0.0110		25						D...T4	D...-1					
	0.0065	STP90NF03L*	90	0.0120		62											■	
	0.0070	STSJ60NH3LL	60	0.0090	18				■									
	0.0072	STx70N03Ly	70	0.0130	15.7						D...T4	D...-1						
	0.0078	STK800	30	0.0098	13.4													■
	0.0080	STB85NF3LLT4	85	0.0095	28	54							■					
	0.0090	STS12NF30L	12	0.0110		66												
	0.0090	STL60NH3LL	30	0.0110	18			■			■							
	0.0095	STD60NF3LLT4	60	0.0105	28	54					■							
	0.0095	STP60NF03L	60	0.0120	24	40											■	
	0.0095	STB70NFS03LT4	70	0.0180	22.5	33							■					
	0.0095	STB70NF3LLT4	70	0.0120	24	40							■					
	0.0095	STB70NF03LT4	70	0.0180	22.5	33							■					
	0.0100	STx50N03Ly*	50	0.0190	10.4													
	0.0105	STS11NF30L	11	0.0190	22.5	33				■								
	0.0105	STSJ50NH3LL	50	0.0130	9				■									
	0.0105	STSJ25NF3LL	25	0.0130	24	40			■									
	0.0105	STS12NH3LL	12	0.0130	9					■								
0.0110	STD40NF3LLT4	40	0.0135	24	40					■								

*Coming soon PolarPAK is a Siliconix trademark

40V to 60V

V_{DSS} [V]	$R_{DS(on)}$ [Ω] max @ 4.5V	Part number	$I_D(Cont)$ [A]	$R_{DS(on)}$ [Ω] max @ 2.7V	Q_g [nC] typ @ 4.5V	Q_g [nC] typ @ 10V	PowerFLAT 6 x 5	PowerSO-8	SO-8	PAK	IPAK	D ² -PAK	I ² -PAK	TO-220	TO-220FP	TO-247	
40	0.0025	STB270N04*	160			110						■					
	0.0029	STx270N04y*	120			110						■	B...1	P			
	0.0035	STB200NF04L	120	0.0043	72	140											
	0.0037	STx200NF04y	120			170							B...T4	B...-1	P		
	0.0038	STx200NF04Ly	120	0.0046	72	140								B...-1	P		
	0.0044	STB200N04*	120										■				
	0.0046	STB100NF04T4	120			110							B...T4		P		
	0.0046	STP120NF04	120												■		
	0.0050	STL80N4LL*	80	0.0070	21.5			■									
	0.0050	STS15N4LL*	15	0.0070	21.5				■								
	0.0050	STSJ80N4LL*	80	0.0070	21.5				■								
	0.0065	STx95N04	80			40					D				P		
0.0300	STD30NF04LT	30	0.0500		17					■							
55	0.0060	STB150NF55-1*	120			140						B...T4	B...-1	P		W	
	0.0065	STx80NF55-06y	80			140						B...T4	B...-1	P			
	0.0065	STx80NF55L-06y	80	0.0080		175						B...T4		P			
	0.0065	STP80NF55-06FP	60			140									■		
	0.0080	STx140NF55y	80			142						B...T4	B...-1	P			
	0.0080	STB80NF55-08T4	80			112						B...T4					
	0.0080	STB80NF55L-08-1	80	0.0100		110							■				
	0.0080	STx80NF55-08	80			112									P		W
	0.0105	STx60N55y*	65			40				D	D...-1	B					
	0.0150	STx60NF55Ly	60	0.0170	40	72				D...T4	D...-1						
	0.0080	STP80NF06	80			120									■		
	60	0.0140	STx60NF06Ly	60	0.0160		65						B...T4		P		
0.0160		STx60NF06y	60			54				D...T4		B...T4		P			
0.0160		STP60NF06FP	37			49									■		
0.0180		STx55NF06Ly	55	0.0200	27							B...T4		P			
0.0180		STx55NF06y	55			45						B...T4		P	P...FP		
0.0195		STD35NF06LT4	35	0.02150		50					■						
0.0195		STS7NF60L	7.5	0.02150		50			■								
0.0200		STD35NF06T4	35			45					■						

*Coming soon

60V cont'd to 100V

V _{DSS} [V]	R _{DS(on)} [Ω] max @ 4.5V	Part number	I _{D(cont)} [A]	R _{DS(on)} [Ω] max @ 2.7V	Q _g [nC] typ @ 4.5V	Q _g [nC] typ @ 10V	SOT-23	SOT-223	S0-8	DDPAK	IPAK	D ² -PAK	TO-92	TO-220	TO-220FP	ISOTOP
60	0.028	STB45NF06T4	38			43						■				
	0.028	STD30NF06LT4	28	0.030		42				■						
	0.028	STD30NF06T4	28			43				■						
	0.028	STF40NF06	23			32									■	
	0.028	STP45NF06	38		58									■		
	0.040	STD20NF06LT4	20	0.048	12					■						
	0.040	STD20NF06T4	20			23				■						
	0.040	STP36NF06	30			23								■		
	0.040	STP36NF06FP	18			23									■	
	0.040	STP36NF06L	30	0.050	13									■		
	0.055	STS4DNF60L	4	0.065	15.5	32			■							
	0.055	STS5NF60L	5	0.065	15.5	32			■							
	0.070	STB20NF06LT4	20	0.085		14						■				
	0.070	STx16NF06Ly	16	0.085	10					D...T4	D...-1					
	0.070	STx20NF06	20			14									P	F
	0.070	STx20NF06L	20	0.085		14									P	F
	0.100	STB16NF06LT4	16	0.120		12						B...T4		P		
	0.100	STx12NF06Ly	12	0.120		12				D...T4	D...-1					
	0.100	STD12NF06T4	12			10				■						
	0.100	STN3NF06L	3	0.120		12			■							
	0.100	STx16NF06y	16			10								P	P...FP	
	0.230	STS2DNE60	2			12			■							
	5	2N7000	0.35	5.300	1.4								■			
5	2N7002*	0.25	5.300	1.4			■									
75	0.0075	STx140NF75y	120			160						B...T4		P		
	0.0110	STB75NF75LT4	75	0.013	70	150					■					
	0.0110	STP75NF75	75			117								■		
	0.0110	STP75NF75FP	40			117									■	
	0.0240	STD45NF75T4	40			60			■							
100	0.0055	STE250NS10	200			900										■
	0.0060	STE180NE10	180			142										■

*Coming soon

100V cont'd to 150V

V _{DSS} [V]	R _{DS(on)} [Ω] max @ 4.5V	Part number	I _{D(cont)} [A]	R _{DS(on)} [Ω] max @ 2.7V	Q _g [nC] typ @ 10V	SOT-223	S0-8	DPAK	D ² PAK	I ² PAK	T0-92	T0-220	T0-220FP	T0-247	Max247
100	0.0100	STY140NS10	140		450										■
	0.0105	STx120NF10y	120		172				B...T4			P		W	
	0.0150	STx80NF10y	80		135				B...T4			P			
	0.0150	STP80NF10FP	80		140								■		
	0.0230	STx60NF10y	80		104				B...T4	B...-1		P			
	0.0280	STx40NF10y	40		60				B...T4			P			
	0.0330	STx40NF10Ly	40	0.036	60				B...T4			P			
	0.0350	STx35NF10y	40		55				B...T4			P			
	0.0350	STD25NF10LT4	25	0.040	68			■							
	0.0380	STD25NF10T4	25		55			■							
	0.0450	STx30NF10y	35		40				B...T4			P			
	0.0600	STP24NF10	26		30							■			
	0.0600	STS4NF100	4		30		■								
	0.0650	STD15NF10T4	23		30			■							
	0.0850	STD16NE10LT4	22	0.100	45			■							
	0.0850	STP22NE10L	22	0.100	45								■		
	0.1300	STD10NF10T4	13		15			■							
	0.1300	STP14NF10	15		15								■		
	0.2500	STD6NF10T4	6		10			■							
	0.2600	STN2NF10	2		10		■								
0.4000	STD5NE10-1	5		14			■								
0.4000	STN2NE10L	2	0.450	16		■									
0.4000	STQ1NE10L-AP	1	0.500	16							■				
0.8000	STN1NF10	1		4		■									
120	0.0180	STP80NF12	80		140							■			
	0.0320	STP40NF12	40		60							■			
	0.1800	STx14NF12y	14		15							P	P...FP		
150	0.0520	STB40NS15T4	40		100					■					
	0.1000	STP30NS15LFP	14	0.112	70								■		

200V to 500V

V _{DSS} [V]	R _{DS(on)} [Ω] max @ 10V	Part number	I _{D(cont)} [A]	Q _g [nC] typ @ 10V	SOT-223	PowerFLAT 6 x 3	SO-8	DPAK	IPAK	D ² PAK	l ² PAK	TO-92	TO-220	TO-220FP	TO-247	Max247	ISOTOP	
200	0.024	STx110NS20FD	110	360												Y	E	
	0.034	STx75N20	75	160						B			P		W			
	0.045	STx40N20	40	75						B			P	F	W			
	0.075	STx30N20	30	50									P		W			
	0.105	STD22NM20NT4	20	32				■										
	0.105	STL20NM20N	20	32		■												
	0.125	STx20N20y	18	28				D...T4						P	F			
	0.160	STx19N20*	15	30										P	F			
	0.400	IRF630	9	31										■				
	0.800	STD5N20T4	5	19				■										
	1.500	STN1N20	1	11		■												
0.7 @ 5V	STD5N20LT4	5	5 @ 5V				■											
250	0.045	STW52NK25Z	52	200												■		
	0.150	STx22NS25Zy	20	120						B...T4			P					
	0.165	STx17N25y	15.7	35				D			B...-1		P	F				
	0.280	STx16NS25y	16	59						B...T4			P	P...FP				
	0.450	STx8NS25y	8	37									P	P...FP				
1.100	STD4NS25T4	4	19		■													
300	0.060	STW54NK30Z	54	160												■		
	0.400	STP12NK30Z	9	30									■					
	0.900	STx7NK30Z	5.7	15				D					P	F				
400	0.250	STx17NK40Zy	15	69									P	P...FP				
	0.550	STx11NK40Zy	9	30						B...T4			P	P...FP				
	1	STx7NK40Zy	6	20				D...T4	D...-1				P	P...FP				
	1.800	STx5NK40Zy	4	12				D...T4	D...-1					P...FP				
450	4.500	STD2NC45-1	1.5	7					■									
	4.500	STQ1NC45R-AP	0.5	7								■						
	4.500	STS1DNC45	0.4	7			■											
500	0.050	STE70NM50	70	190													■	
	0.050	STY60NM50	60	190												■		

*Coming soon Second generation MDmesh in blue characters

500V cont'd to 520V

V _{DSS} [V]	R _{DS(on)} [Ω] max @ 10V	Part number	I _{D(cont)} [A]	Q _g [nC] typ @ 10V	DPAK	IPAK	D ² PAK	I ² PAK	TO-92	TO-220	TO-220FP	TO-247	ISOTOP
500	0.08	STE53NC50	53	310									■
	0.10	STE48NM50	48	87									■
	0.10	STW45NM50	45	87								■	
	0.10	STW45NM50FD	45	92								■	
	0.12	STW26NM50	30	76								■	
	0.13	STW29NK50Z	31	190								■	
	0.14	STx25NM50Ny	22	84			B	B...-1		P	F	W	
	0.15	STW29NK50ZD*	29	180								■	
	0.19	STx21NM50Ny	18	65			B	B...-1		P	F	W	
	0.25	STx20NM50FDy	20	38			B...T4			P		W	
	0.27	STx20NK50Z	18	95						P		W	
	0.34	STx15NK50Zy	14	76						P	P...FP	W	
	0.38	STx12NM50N	10.1	30		D	B			P	F		
	0.38	STx14NK50Zy	14	69			B...T4	B...-1		P	P...FP	W	
	0.40	STW14NM50FD	14	27.5								■	
	0.40	STx12NM50FDy	12	27.5			B...T4			P	P...FP		
	0.52	STx11NK50Zy	10	49			B...T4			P	P...FP		
	0.56	STx9NM50Ny*	7.5	24		D	D...-1			P	F		
	0.75	STx10NK50Z	9	45						P	F		
	0.78	STx7NM50Ny*	5	17		D	D...-1			P			
	0.85	STx9NK50Zy	7.2	35						P	P...FP		
	1.20	STx6NK50Zy	5.6	24.6		D...T4				P	F		
	1.50	STx5NK50Zy	4.4	20		D...T4	D...-1			P	P...FP		
2.70	STx4NK50Zy	3	12		D...T4	D...-1			P	P...FP			
2.70	STx4NK50ZDy	3	12			D...-1							
3.30	STQ3NK50ZR-AP	0.5	11						■				
3.30	STx3NK50Zy	2.3	11		D...T4	D...-1							
520	1.50	STx5NK52ZDy	4.4	20	D	D...-1		B...-1		P			

*Coming soon Second generation MDmesh in blue characters

600V

V_{DSS} [V]	$R_{DS(on)}$ [Ω] max @ 10V	Part number	$I_{D(cont)}$ [A]	Q_g [nC] typ @ 10V	DPAK	IPAK	D ² PAK	I ² PAK	TO-220	TO-220FP	TO-247	Max247	ISOTOP
600	0.055	STE70NM60	70	178									■
	0.055	STY60NM60	60	178								■	
	0.110	STW45NM60	45	96							■		
	0.135	STE40NC60	40	307									■
	0.135	STW26NM60	30	73							■		
	0.145	STW30NM60D	30	73							■		
	0.170	STx25NM60Ny	20	84			B	B...-1	P	F	W		
	0.185	STW28NK60Z	27	189							■		
	0.240	STx21NM60Ny	17	67			B	B...-1	P	F	W		
	0.290	STx20NM60FD	20	40					P		W		
	0.360	STW18NK60Z	16	106							■		
	0.420	STx16NK60Zy ^Δ	14	86					P		W		
	0.450	STB11NM60FDT4	11	28			■						
	0.450	STx11NM60FDy	11	28					P	P...FP			
	0.450	STx11NM60Ny*	10	31		D	D...-1		P	F			
	0.500	STx14NK60Zy	13.5	75				B...T4	P	P...FP	W		
	0.550	STx13NK60Zy	13	66				B...T4	P	P...FP	W		
	0.640	STx12NK60Z	10	60					P	F			
	0.650	STx8NM60Ny*	6.8	24		D	D...-1		P				
	0.750	STx10NK60Zy	10	50					B...-1	P	P...FP	W	
	0.900	STx6NM60Ny*	5	17		D	D...-1		P				
	0.950	STx9NK60Zy	9	40				B...T4	P	P...FP			
	0.950	STB9NK60ZDT4	7	41				■					
	0.950	STx9NK60ZDy	7	41				B...T4	P	F			
	1	STx8NM60D	8	12				B	P				
	1.200	STx6NK60Zy	6	33				B...T4	B...-1	P	P...FP		
	1.500	STx3NM60y	3	10		D...T4	D...-1						
	1.600	STx5NK60Zy	5	25		D...T4			P	P...FP			
	2	STx4NK60Zy	4	19		D...T4	D...-1	B...T4	B...-1	P	P...FP		

*Coming soon ^Δ I²SPAK = B...-S Second generation MDmesh in blue characters

600V cont'd to 800V

V _{DSS} [V]	R _{DS(on)} [Ω] max @ 10V	Part number	I _{D(cont)} [A]	Q _g [nC] typ @ 10V	SOT-223	PowerFLAT 6 x 5	S0-8	DDPAK	IPAK	D ² PAK	I ² PAK	T0-92	T0-220	T0-220FP	T0-247	ISOTOP
	3.60	STx3NK60Zy	3	12.5				D...T4	D...-1	B...T4			P	P...FP		
	4.80	STQ2Hnk60ZR-AP	0.5	11								■				
	4.80	STx2Hnk60Zy	2	11				D	D...-1					F		
	8	STF2NK60Z	1.4	7.7									P	F		
	8	STQ2NK60ZR-AP	0.4	7.7								■				
	8.50	STN1Hnk60	0.4	7		■										
	8.50	STQ1Hnk60R-AP	0.4	7								■				
	8.50	STS1Hnk60	0.8	7			■									
	8.50	STx1NK60y	1	7				D...T4	D...-1							
	15	STD1LNK60Z-1	0.8	4.9			■									
	15	STN1NK60Z	0.3	4.9		■										
	15	STQ1NK60ZR-AP	0.3	4.9								■				
650	0.38	STx11NM65Ny*	11	60							B...-1		P	F	W	
	0.50	STx16NK65Zy ^Δ	13	89									P			
	1.20	STP9NK65Z	7	41									P	P...FP		
700	0.30	STW20NK70Z	19	220											■	
	0.85	STx10NK70Zy	8	60									P	P...FP		
	1.20	STx9NK70Zy	7.5	48						B...T4			P	P...FP	W	
	1.80	STF6NK70Z	4.9	33									P	F		
	7	STx2NK70Zy	1.6	11.4				D...T4	D...-1							
800	0.13	STE45NK80ZD	45	558												■
	0.38	STW18NK80y	17	220											■	
	0.40	STx11NM80y	11	40						B...T4			P	F	W	
	0.65	STW13NK80Z	12	120											■	
	0.75	STB12NK80Z-S	11	87							■					
	0.75	STx12NK80Zy	10.5	87						B...T4			P		W	
	0.90	STPxNK80Zy	9	72									P	P...FP	W	
	1.20	STF9NK80Z	7.5	60									■			
	1.50	STx8NK80Zy	6.2	50									P	P...FP	W	

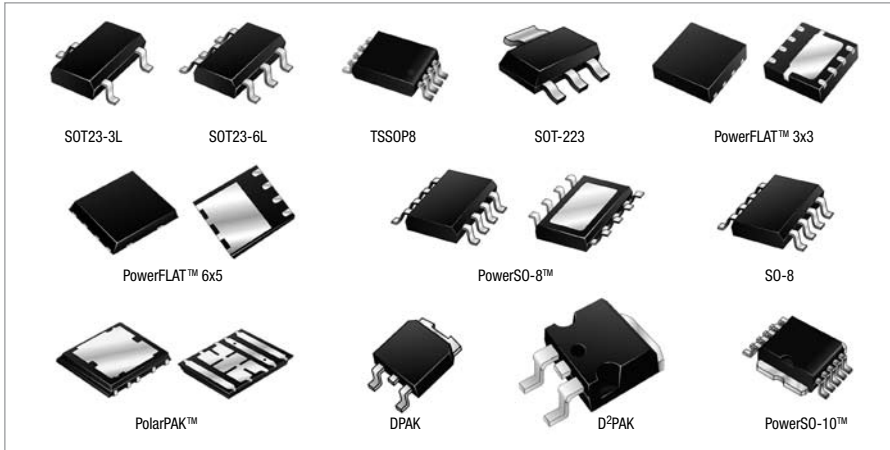
*Coming soon ^Δ I²SPAK = B...-S Second generation MDmesh in blue characters

800V cont'd to 1500V

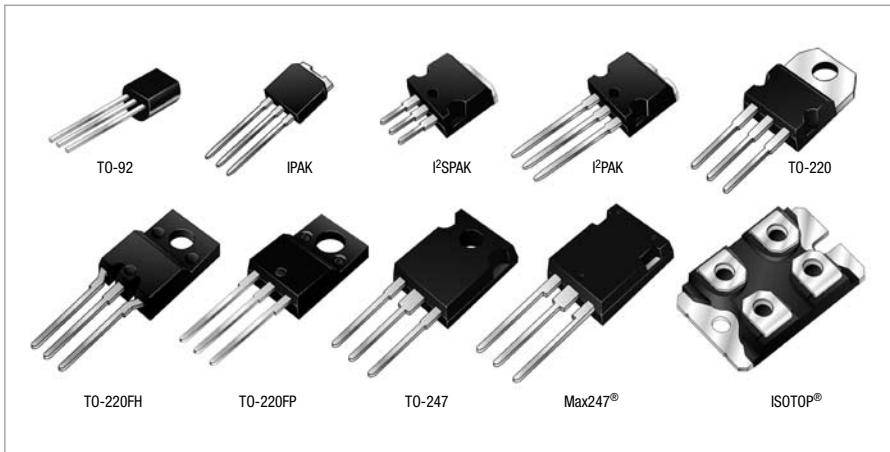
V _{DSS} [V]	R _{DS(on)} [Ω] max @ 10V	Part number	I _{D(cont)} [A]	Q _g [nC] typ @ 10V	DPAK	IPAK	D ² PAK	TO-220	TO-220FP	TO-220FH	TO-247	Max247	ISOTOP
800	1.80	STx7NK80Zy	5.2	40				P	P...FP				
	2.40	STx5NK80Zy	4.3	32.4				P	P...FP				
	3.50	STx4NK80Zy	3	22.5	D			P	P...FP				
	4.50	STx3NK80Zy	2.5	18	D...T4	D...-1		P	F				
	16	STx1NK80Zy	1	5	D...T4	D...-1							
	16	STN1NK80Z	0.3	5									
	16	STQ1NK80ZR-AP	0.3	5									
850	1.40	STx8NK85Z	6.7	60				P	F				
900	0.30	STE30NK90Z	30	390									■
	0.30	STY30NK90Z	26	390								■	
	0.55	STW15NK90Z	14.5	220							■		
	0.88	STW12NK90Z	11	120							■		
	0.98	STW11NK90Z	9.2	100							■		
	1.30	STx9NK90Z	8	72			B	P	F		W		
	0.17	STE40NK90ZD	40	590									■
	2	STx6NK90Zy	6	50				P	P...FP				
	2	STW7NK90Z	6	50							■		
	2.50	STx5NK90Z	4.5	41.5				P	F				
	4.20	STx3HNK90Z	3	26				P	F				
	4.80	STx3NK90Zy	2.8	25	D...T4			P	P...FP				
	6.50	STx2NK90Zy	2.1	19.5	D...T4	D...-1		P					
950	0.90	STW12NK95Z	1.02	113							■		
1000	0.70	STW13NK100Z	12	220							■		
	1.38	STW11NK100Z	10.5	120							■		
	2	STx8NK100Z	6.3	75				P	F				
	3.70	STx5NK100Z	3.5	40				P	F		W		
1500	7	STx4N150	4	30				P		FV	W		
	12	STx3N150*	2.5	18				P		FV			

*Coming soon;

Surface mounting packages



Through hole packages



Package images are not to scale



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