POWER MOSFETs

IGBTs *Selection Guide*

THE PEOPLE WHO
PUT YOU IN CONTROL
OF YOUR SYSTEMS

IGBTs

FEATURE	Type	BV_{ces} (V)	I_{cn} (A)	$V_{ce(sat)}$ (V)	t_{fall} (ns)	Package	Application
Logic Level Fully Clamped	STGB20NB32LZ	350	20	1.3	1000	D^2PAK	Electronic Ignition
	STGB10NB37LZ	375	10	1.35	1000	D^2PAK	
	STGB20NB37LZ	375	20	1.35	1000	D^2PAK	
Low Drop	STGD3NB60S	600	3	1.2	1000	DPAK	
	STGD3NB60SD	600	3	1.2	1000	DPAK	Gas Discharge Lamp
	STGD7NB60S	600	7	1.2	1000	DPAK	Low Frequency Motor Control
	STGP10NB60S	600	10	1.35	1000	TO-220	
	STGD7NB120S-1	1200	7	2.1	3300	IPAK	Lighting
Fast Switching	STGD3NB60H	600	3	2.4	70	DPAK	
	STGP3NB60H	600	3	2.4	70	TO-220	
	STGD7NB60H	600	7	2.3	70	DPAK	
	STGP7NB60H	600	7	2.3	70	TO-220	
	STGP12NB60H	600	12	2.3	75	TO-220	Motor Drive
	STGW12NB60H	600	12	2.3	75	TO-247	Power Supply Welding
	STGP20NB60H	600	20	2.3	70	TO-220	
	STGW20NB60H	600	20	2.3	70	TO-247	
	STGW30NB60H	600	30	2.3	90	TO-247	
	STGW50NB60H	600	50	2.1	100	TO-247	
Fast Switching + Freewheeling Diode	STGB3NB60HD	600	3	2.4	70	D^2PAK	
	STGP3NB60HD	600	3	2.4	70	TO-220	
	STGP3NB60HDFP	600	3	2.4	70	TO-220FP	
	STGB7NB60HD	600	7	2.3	70	D^2PAK	
	STGP7NB60HD	600	7	2.3	70	TO-220	
	STGP7NB60HDFP	600	7	2.3	70	TO-220FP	Motor Drive
	STGW12NB60HD	600	12	2.3	75	TO-247	Power Supply
	STGW20NB60HD	600	20	2.3	70	TO-247	
	STGW30NB60HD	600	30	2.3	90	TO-247	
	STGY50NB60HD	600	50	2.1	100	Max247	
	STGE50NB60HD	600	50	2.1	100	ISOTOP	
Short Circuit Proof	STGD3NB60K	600	3	2.8	80	DPAK	
	STGD7NB60K	600	7	2.8	80	DPAK	
	STGP20NB60K	600	20	2.8	80	TO-220	
	STGP3NB60K	600	3	2.8	80	TO-220	Motor Drive
	STGP7NB60K	600	7	2.8	80	TO-220	
	STGW20NB60K	600	20	2.8	80	TO-247	
	STGW25NB120K	1200	25	3	200	TO-247	

SO-8

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
-40	0.1	STS3DPFS40	-3		23	
-30	0.04	STS6PF30L	-6			
	0.06	STS5PF30L	-5	0.075	12.5	
	0.08	STS4DPF30L	-4			
	0.09	STS3DPFS30	-3		23	
	0.16	STS3DPF30L	-3	0.19	5.5	
	0.16	STS3DPFS30L	-3	0.19	5.5	
-20	0.06	STS4DPFS20L	-4	0.075	25	
	0.06	STS4DPF20L	-4	0.075	25	
	0.06	STS4DPFS2LS	-4	0.075	25	
20	-	STS6NF20V	6	0.035	8	2.5V Drive Optimization /
	-	STS5DNF20V	5	0.035	8	Motor Control / Buck Conv.
30	0.01	STS12NF30L	12	0.012	35	
	0.011	STS11NF3LL	11	0.013	25	4.5V Drive Optimization
	0.012	STS11NF30L	11	0.0185	19	High Freq. DC-DC Conv.
	0.0135	STS10NF30L	10	0.022	25	High Freq. DC-DC Conv.
	0.017	STS9NF3LL	9	0.02	22	Motherb. - High Freq. DC-DC Conv.
	0.022	STS7DNFS30L	7	0.026	17.5	
	0.022	STS7DNF30L	7			
	0.022	STS8NFS30L	8	0.026	17.5	
	0.022	STS8NF30L	8	0.026	17.5	High Freq. DC-DC Conv.
	0.025	STS7NF30L	7	0.032	17	High Freq. DC-DC Conv.
	0.025	STS6DNF30L	6	0.032	17	
	0.045	STS5DNE30L	5	0.065		
	0.065	STS3DNF30L	3.5	0.09	8	
	0.11	STS2DNF30L	3	0.15	4.5	
30/-30	0.022 / 0.08	STS7C4F30L	7 / -4	0.026 / 0.075	17.5 / 12.5	Complementary Pair
	0.065 / 0.165	STS3C3F30L	3 / -3	0.090 / 0.20	16 / 11	Complementary Pair
	0.065					
60	0.022	STS7NF60L	7	0.028		
	0.055	STS5NF60L	5	0.065	15	
	0.055	STS4DNF60L	4	0.065	15	
	0.08	STS3DNE60L	3	0.1		
	0.23	STS2DNE60	2		12	
100	0.25	STS2NF100	2		12	DC-DC Conv.
150	0.065	STS5NS150	5		65	Isolated High Freq. DC-DC Conv.
250	1.5 / 3.2	STS1C1S250	0.8 / 0.56		15 / 16	LIGHTING
600	16	STS1DNC60	1			
	16	STS1NC60	1			

SOT23-6L

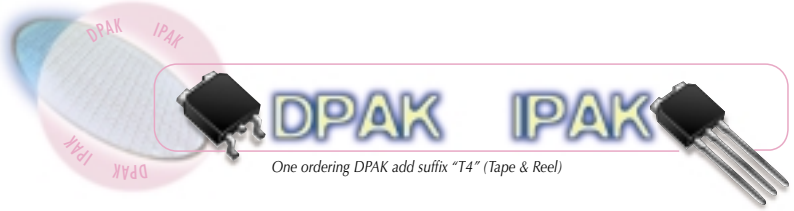
V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
-60	0.27	STT2PF60L	-2			
-30	0.165	STT3PF30L	-3	0.2	5.5	
-20	-	STT3PF20V	-3	0.190		Super Logic Level for GSM
20	-	STT5NF20V	5	0.035	8	2.5V Drive Optim. / Motor Control Buck Conv.
30	0.065	STT4NF30L	4			

SOT-223

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
30	0.05	STN4NE03L	4	0.06	6.5	
	0.06	STN4NE03	4		6.5	
60	0.1	STN3NE06L	2	0.12	13	
	0.1	STN3NF06	2		13	
	0.1	STN3NE06	2		13	
	0.1	STN3NE06L	2	0.12	13	
	0.15	STN2NF06	2		20	
	0.25	STN2NE06	2		12	
100	0.27	STN2N10	2		21	
	0.25	STN2NF10	2		12	DC-DC Conv.
	0.4	STN2NE10L	1.8	0.45	10	
	0.4	STN2NE10	1.8		10	
200	1.5	STN1N20	1		13	
600	16	STN1NC60	0.3		4	
800	20	STN1NB80	0.2		10	

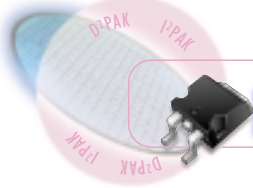
PowerSO-10™

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	NOTES
20	0.0025	STV160NF02L	160		High Perf. Synchronous Rect.
	0.0028	STV160NF02LA	160		
30	0.0028	STV160NF03L	160		High Perf. Synchronous Rect.
	0.0033	STV160NF03LA	160		
60	0.014	STV60NF06	60		Automotive
	0.014	STV60NF06L	60	0.016	Automotive



One ordering DPAK add suffix "T4" (Tape & Reel)

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
-250	3.2	STD3PS25	2.5			
-60	0.2	STD10PF06	10		16	
20	0.013	STD40NF02L	40		36	High Freq. DC-DC Conv.
30	0.0095	STD60NF3LL	60	0.011	60	Motherb. - High Freq. DC-DC Conv.
	0.0115	STD40NF3LL	40	0.0135	43	High Freq. DC-DC Conv. 4.5V Drive Optimization
	0.013	STD45NF03L	45	0.018	43	
	0.012	STD40NF03L	40	0.022	35	High Freq. DC-DC Conv.
	0.016	STD40NE03L	40	0.022	35	
	0.016	STD38NF03L	38	0.019	27	High Freq. DC-DC Conv.
	0.02	STD35NF3LL	35	0.023	22	Motherb. - High Freq. DC-DC Conv. 4.5V Drive Optimization
	0.023	STD29NF03L	29	0.038	18	High Freq. DC-DC Conv.
	0.025	STD30NF03L	30	0.035	18	
	0.05	STD16NF03L	16	0.06	6.5	
55	0.015	STD40NF55L/-1	40	0.017	77	Automotive - DC-DC Conv.
60	0.022	STD35NF06L	35	0.028		
	0.022	STD35NF06	35			
	0.028	STD30NF06L/-1	28	0.03	23	
	0.028	STD30NE06	30	0.03	31	
	0.028	STD30NE06L	30	0.03	31	
	0.04	STD20NE06	20		50	
	0.05	STD19NE06/-1	19		20	
	0.05	STD19NE06L/-1	19	0.06	20	
	0.85	STD16NE06	16		14	
	0.85	STD16NE06L	16	0.085	14	
	0.1	STD12NF06	12			
100	0.1	STD12NF06L	12			
	0.048	STD25NF10	25			Low Input Capacitance
	0.08	STD15NF10	15		30	Low Input Capacitance
	0.085	STD16NE10L	16	0.1	24	
	0.085	STD16NE10	16		24	
	0.18	STD10NF10	10		15.3	Low Input Capacitance
	0.25	STD6NF10	6		12	DC-DC Conv.
	0.4	STD5NE10L/-1		0.45	10	
200	0.4	STD5NE10/-1	5		10	
	0.4	STD7NB20	7		17	
	0.4	STD7NS20	7		31	
	0.8	STD5NB20-1	5		12	
	0.8	STD5N20	5		19	TELECOM
250	1.5	STD4N20/-1	4			
	1.1	STD4NB25	4		12	
	1.1	STD4NS25/-1	4			
300	2	STD2NB25/-1	2		10.3	
	0.9	STD5NB30	5		17	
400	2	STD3NB30	3.2		12	
	1.8	STD4NB40	3.7			
	5.5	STD2NC40/-1	1.5		4	
500	10	STD1NB40-1	1			
	0.8	STD5NM50/-1	5		13	MDmesh
	1.5	STD4NC50/-1	3.7		18	
	2.7	STD3NC50/-1	3		15	
	2.8	STD3NB50/-1	3		15	
	6	STD2NB50/-1	1		7	
	9	STD1NB50-1	1.4		9	
600	1	STD5NM60/-1	5		13	MDmesh
	2.2	STD3NC60/-1	3.2		18	
	3.6	STD2NC60/-1	2		15	
	3.6	STD2NB60	2.6		15	
	5	STD1HNC60-1	1			
	8	STD1NC60-1	1			
	8.5	STD1NB60-1	1		7	
	16	STD1LNC60-1	1		9.5	
700	5	STD2NC70Z/-1	1.7			New HV PowerMESH III
	8.5	STD1NC70Z-1	1.2			New HV PowerMESH III
800	6.5	STD2NB80/-1	1.9		17	
	20	STD1NB80/-1	1		10	



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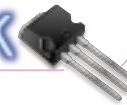
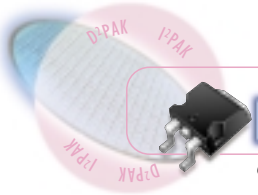


One ordering DPAK add suffix "T4" (Tape & Reel)

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
-55	0.02	STB80PF55	-80		180	Load Switching
20	0.009	STB70NF02L	70	0.015	36	High Freq. DC-DC Conv.
30	0.0032	STB100NF03L-03	100	0.0045	160	Automotive High Freq. DC-DC Conv.
	0.004	STB80NF03L-04/-1	80	0.005	160	Automotive High Freq. DC-DC Conv.
	0.006	STB80NF03L-06	80			
	0.0065	STB90NF03L	90	0.095	75	Motherb. - High Freq. DC-DC Conv.
	0.01	STB70NF3LL	70	0.012	43	4.5V Drive Optimization
	0.01	STB70NF03L	70	0.018	35	High Freq. DC-DC Conv.
	0.01	STB60NF03L	60	0.015	43	
	0.01	STB60NE03L-10	60	0.015	62	
	0.01	STB70NFS03L	70		35	N-channel plus Schottky Diode
	0.012	STB60NE03L-12	60			
	0.013	STB55NF03L	55	0.021	25	
	0.0135	STB50NF03L	50			High Freq. DC-DC Conv.
	0.0155	STB3015L	40		40	
	0.017	STB45NF3LL	45	0.02	22	Motherb. - High Freq. DC-DC Conv.
	0.02	STB36NF03L	36	0.035	18	High Freq. DC-DC Conv.
	0.022	STB3020L	40	0.038	21	
	0.022	STB40NF03L	40	0.035	18	High Freq. DC-DC Conv.
40	0.0042	STB100NF04L	100	0.007	160	Automotive
55	0.0065	STB80NF55-06/-1	80		190	
	0.0065	STB80NF55L-06/-1	80	0.008	97	
	0.008	STB80NF55L-08-1	80	0.01	110	Automotive - DC-DC Conv.
	0.008	STB80NF55-08	80		108	Automotive - DC-DC Conv.
60	0.01	STB80NE06-10	80		140	
	0.014	STB60NF06/-1	60			Automotive
	0.014	STB60NF06L/-1	60	0.016		Automotive
0.016	STB60NE06-16		60		55	
	0.016	STB60NE06L-16	60	0.018	55	
	0.022	STB55NF06	55	0.028	40	
	0.022	STB55NE06L	55	0.028	40	
	0.022	STB55NE06	55		40	
	0.028	STB45NF06	38		43	
	0.028	STB45NF06L	38	0.03	43	
75	0.01	STB80NF75L/-1	80	0.013		42V Automotive
	0.013	STB75NF75	75			Automotive - DC-DC Conv.
	0.013	STB75NF75L	75			Automotive - DC-DC Conv.
	0.013	STB75NE75	75		150	
80	0.024	STB50NE08	50		85	
100	0.018	STB80NF10	80		140	Low Input Capacitance
	0.025	STB50NE10L	50	0.03	82	
	0.035	STB40NF10	40		60	Low Input Capacitance
	0.045	STB35NF10	35			Low Input Capacitance
	0.07	STB30NF10	30		80	
	0.077	STB24NF10	24		30	Low Input Capacitance
	0.085	STB22NE10L	22			
	0.18	STB14NF10	14			Low Input Capacitance
	-	STB40NF10L	40	0.036		Low Input Capacitance



D²PAK I²PAK

One ordering DPAK add suffix "T4" (Tape & Reel)

Contd.

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
150	0.052	STB40NS15	40		100	
	0.065	STB30NS15-1	30		65	DC-DC Conv.:Primary Switch
200	0.18	STB19NB20	19		29	
	0.4	STB10NB20	10		17	
250	0.28	STB16NB25	16		29	
	0.28	IRF644	13			
400	0.55	STB11NB40/-1	10		29.5	
	0.9	STB7NB40	7		21	
	1.8	STB5NB40	5			
500	0.35	STB12NM50/-1	12		28	MDmesh
	0.52	STB10NC50/-1	10		41	
	0.6	STB10NB50	10.6		38	
	0.85	STB8NC50/-1	8		36	
	0.85	STB9NB50	8.6		32	
	1.5	STB6NB50/-1	6		21	
600	0.45	STB11NM60/-1	11		30	MDmesh
	0.75	STB9NC60/-1	9		55	
	0.8	STB9NB60/-1	9		40	
	1.2	STB7NB60/-1	7.2		30	
	1.2	STB6NC60	6		35	
	1.8	STB4NC60/-1	4.2		16.5	
	2	STB5NB60/-1	5		21	
	3.6	STB3NC60/-1	3		13	
	3.6	STB3NB60/-1	3		15	
700	1.2	STB8NC70Z/-1	6.8		60	New HV PowerMESH III
	1.38	STB7NC70Z/-1	6		47	New HV PowerMESH III
	2	STB5NC70Z	4.6			New HV PowerMESH III
800	1.5	STB7NC80Z/-1	6		57	New HV PowerMESH III
	1.8	STB6NC80Z/-1	5.4		45	New HV PowerMESH III
	2.2	STB5NB80	5		30	
	2.8	STB4NC80Z/-1	4			New HV PowerMESH III
	3.3	STB4NB80	4		21	
900	2	STB6NC90Z/-1	5.3		51	New HV PowerMESH III
	2.5	STB5NC90Z/-1	4.6		40	New HV PowerMESH III
	3.5	STB3NC90Z/-1	3.5			New HV PowerMESH III

TO-220

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
-60	0.2	STP12PF06	-12			
-55	0.02	STP80PF55	-80		180	Load Switching
30	0.004	STP80NF03L-04	80	0.005	100	Automotive
	0.006	STP80NE03L-06	80		95	
	0.0065	STP90NF03L	90			
	0.01	STP70NF3LL	70	0.012	43	4.5V Drive Optimization
	0.01	STP70NF03L	70	0.018	35	
	0.01	STP60NF03L	60	0.015	43	
	0.012	STP60NE03L-12	60		62	
	0.0135	STP50NF03L	50			High Freq. DC-DC Conv.
	0.0135	STP55NF03L	55			
	0.0155	STP3015L	40			
	0.017	STP45NF3LL	45	0.02	22	Motherb. - High Freq. DC-DC Conv. - 4.5V Drive Optimization
	0.022	STP3020L	40	0.038	21	
	0.022	STP40NF03L	40	0.035	18	HIGH Freq. DC-DC Conv.
	0.04	STP30NE03L	30	0.055	20	
	0.05	STP20NF03L	20			
34	0.008	STP80NS04Z	80		60	Automotive
	0.015	STP60NS04Z	60		70	Automotive
40	0.0042	STP100NF04L	100	0.005	160	Automotive
	0.015	STP60NS04Z	60		70	Automotive
50	0.028	IRFZ40	50		50	
	0.04	BUZ11	30			
	0.055	BUZ11A	26			
	0.07	BUZ10	23			
	0.1	BUZ71	14			
55	0.0065	STP80NF55-06	80		190	
	0.0065	STP80NF55L-06	80	0.008	97	
	0.008	STP80NF55L-08	80	0.01	110	Automotive - DC-DC Conv.
	0.008	STP80NF55-08	80		108	Automotive - DC-DC Conv.
60	0.01	STP80NE06-10	80		140	
	0.014	STP60NF06L	60	0.016		Automotive
	0.014	STP60NF06	60			Automotive
	0.016	STP60NE06L-16	60	0.014	55	
	0.016	STP60NE06-16	60		55	
	0.022	STP55NE06L	55	0.028	40	
	0.022	STP55NF06	55		40	
	0.022	STP55NF06L	55	0.028		
	0.028	STP45NF06L	38	0.03	31	
	0.028	STP45NE06L	45	0.03	31	
	0.028	STP45NE06	45		31	
	0.04	STP36NE06	36		50	
	0.05	STP30NE06L	30	0.06	20	
	0.07	STP20NE06L	20	0.085	14	
	0.1	STP16NF06	16			
	0.1	STP16NF06L	16	0.12		
	0.12	STP14NF06	14			
	0.12	STP14NF06L	14	0.14		
	0.15	MTP3055E	12		15	
75	0.01	STP80NF75L	80	0.013		Automotive, 42V Apps.
	0.013	STP75NE75	75			
	0.013	STP75NF75	75			Automotive
	0.013	STP75NF75L	75			Automotive
80	0.024	STP50NE08	50		85	

TO-220

Contd.

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
100	0.018	STP80NF10	80		140	Low Input Capacitance
	0.022	STP60NE10	60		142	
	0.025	STP50NE10L	50	0.03	82	
	0.028	STP50NE10	50		82	
	0.035	STP40NF10	40		60	Low Input Capacitance
	0.045	STP35NF10	35			Low Input Capacitance
	0.077	IRF540	30		80	
	0.077	STP24NF10	14		30	Low Input Capacitance
	0.085	STP22NE10L	22	0.1	24	
	0.1	STP20NE10	20		38	
	0.16	IRF530	16		32	
	0.17	STP30NF10	30			
	0.18	STP14NF10	14		15.5	
	0.27	IRF520	10		15	
	0.4	STP7NE10L	7	0.45	10	
	0.4	STP7NE10	7		10	
		STP40NF10L	40	0.036		Automotive
150	0.052	STP40NS15	40		100	
200	0.18	STP19NB20	19		29	DC/DC Conv.
	0.18	IRF640*	18		55	
	0.4	STP10NB20	10		17	DC/DC Conv.
	0.4	IRF630*	9		31	
	0.8	IRF620*	6		19	
	1.5	STP4N20	4		13	
250	0.28	STP16NB25	16		29	
	0.28	IRF644	13			
	1.1	STP6NB25	6		12	
300	0.4	STP12NB30	12		29	
	0.9	STP7NB30	7		17	
	2	STP4NB30	4		12	
400	0.55	IRF740	10		35	
	0.55	STP11NB40	10.7		29	
	0.9	STP7NB40	7		21	
	1	IRF730	5.5			
	1.8	STP5NB40	4.7		14.5	
500	0.35	STP12NM50	12		28	MDmesh
	0.52	STP10NC50	10		41	
	0.6	STP10NB50	10.6		38	
	0.85	STP8NC50	8		36	
	0.85	STP9NB50	8.6		32	
	1.5	STP5NC50	5.5		18	
	1.5	STP6NB50	5.8		20.5	
	1.5	IRF830	4.5		22	
	2.7	STP4NC50	4		12.5	Power Supply - Lighting
	2.8	STP4NB50	3.8		14.5	
	3	IRF820	2.5		12	
600	0.45	STP11NM60	11		30	MDmesh
	0.75	STP9NC60	9		44	
	0.8	STP9NB60	9		40	
	1.2	STP7NB60	7.2		30	
	1.2	STP6NC60	6		35	
	1.2	IRFBC40	6.2		38	
	2	STP5NB60	5.3		21	
	2.2	STP4NC60	4.2		16.5	
	2.2	IRFBC30	3.6		21	
	3.6	STP3NB60	3.3		15	
	3.6	STP3NC60	3		13	Power Supply - Lighting

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V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
700	1.2	STP8NC70Z	6.8		60	New HV PowerMESH III
	1.38	STP7NC70Z	6		47	New HV PowerMESH III
	2	STP5NC70Z	4.6			New HV PowerMESH III
	5	STP3NC70Z	2.5			New HV PowerMESH III
	8.5	STP2NC70Z	1.4			New HV PowerMESH III
800	1.5	STP7NC80Z	6		57	New HV PowerMESH III
	1.6	STP7NB80	6.5		40	
	1.8	STP6NC80Z	5.4		45	New HV PowerMESH III
	1.9	STP6NB80	5.7		33	
	2.2	STP5NB80	5		30	
	2.8	STP4NC80Z	4			New HV PowerMESH III
	3.3	STP4NB80	4		21	
	6.5	STP3NB80	2.6		17	
900	1.9	STP6NB90	6		40	
	2	STP6NC90Z	5.3		52	New HV PowerMESH III
	2.5	STP5NC90Z	4.6		40	New HV PowerMESH III
	2.5	STP5NB90	5		33	
	2.9	STP4NB90	4.4		30	
	3.5	STP3NC90Z	3.5			New HV PowerMESH III
	4.2	STP3NB90	3.5		21	
1000	2.7	STP5NB100	5		39	
	4.4	STP4NB100	4.4		32	
	6	STP3NB100	3		22	

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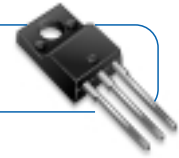

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
30	0.04	STP30NE03LFP	17	0.055	20	
55	0.0065	STP80NF55-06FP	60		190	
	0.0065	STP80NF55L-06FP	60	0.008	97	
60	0.014	STP60NF06LFP	60	0.016		Automotive
	0.014	STP60NF06FP	60			Automotive
	0.016	STP60NE06-16FP	35		55	
	0.016	STP60NE06L-16FP	35	0.014	55	
	0.022	STP55NE06LFP	28	0.028	40	
	0.022	STP55NF06FP	55		40	
	0.022	STP55NF06LFP	55	0.028		
	0.022	STP55NE06FP	50		40	
	0.028	STP45NE06LFP	25	0.03	31	
	0.028	STP45NE06FP	25		31	
	0.04	STP36NE06FP	20		50	
	0.05	STP30NE06LFP	17	0.06	20	
	0.05	STP30NE06FP	30		20	
	0.07	STP20NE06LFP	13	0.085	14	
	0.085	STP20NE06FP	13		14	
	0.1	STP14NF06FP	14			
	0.1	STP16NF06FP	11		20	
	0.1	STP16NF06LFP	10	0.12		

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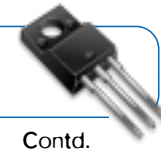

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V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	$R_{DS(on)}$ 4.5V (W)	Q_g 10V (typ) (nC)	NOTES
100	0.077	IRF540FI	16		80	
	0.16	IRF530FI	10			
	0.27	IRF520FI	7		15	
200	0.18	STP19NB20FP	10		29	
	0.18	IRF640FP	18		55	
	0.4	STP10NB20FP	6		17	
	0.4	IRF630FP	9		31	
	0.8	IRF620FP	6		19	
250	0.8	STP16NB25FP	16		29	
	1.1	STP6NB25FP	3.7		12	
300	0.4	STP12NB30FP	6.5		29	
	0.9	STP7NB30FP	4		17	
	2	STP4NB30FP	2.8		12	
400	0.55	STP11NB40FP	6		29	
	0.9	STP7NB40FP	4.4		21	
	1.8	STP5NB40FP	3.1		14.5	
500	0.35	STP12NM50FP	12		28	MDmesh
	0.52	STP10NC50FP	10		41	
	0.6	STP10NB50FP	10.6		38	
	0.85	STP8NC50FP	8		36	
	0.85	STP9NB50FP	4.9		32	
	1.5	STP5NC50FP	5.5		18	
	1.5	STP6NB50FP	3.4		20.5	
	2.7	STP4NC50FP	4		12.5	Power Supply - Lighting
600	0.75	STP9NC60FP	9		44	
	0.8	STP9NB60FP	5.2		40	
	1.2	STP7NB60FP	4.1		30	
	1.2	STP6NC60FP	6		35	
	2	STP5NB60FP	3		21	
	2.2	STP4NC60FP	4.2		16.5	
	3.6	STP3NC60FP	3		13	
	3.6	STP3NB60FP	2.2		15	
700	1.2	STP8NC70ZFP	6.8		60	New HV PowerMESH III
	1.38	STP7NC70ZFP	6		47	New HV PowerMESH III
	2	STP5NC70ZFP	4.6			New HV PowerMESH III
800	1.5	STP7NC80ZFP	6		57	New HV PowerMESH III
	1.6	STP7NB80FP	7		40	
	1.9	STP6NB80FP	6		33	
	1.8	STP6NC80ZFP	5.4		45	New HV PowerMESH III
	2.2	STP5NB80FP	3		30	
	2.8	STP4NC80ZFP	4			New HV PowerMESH III
	3.3	STP4NB80FP	2.3		21	
	6.5	STP3NB80FP	1.6		17	
900	1.9	STP6NB90FP	6		40	
	2	STP6NC90ZFP	5.3		52	New HV PowerMESH III
	2.5	STP5NC90ZFP	4.6		40	New HV PowerMESH III
	2.5	STP5NB90FP	5		33	
	2.9	STP4NB90FP	2.5		30	
	3.5	STP3NC90ZFP	3.5			New HV PowerMESH III
	4.2	STP3NB90FP	2		21	
1000	2.7	STP5NB100FP	5		39	
	4.4	STP4NB100FP	4.4		32	
	6	STP3NB100FP	1.8		22	

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	Q_g 10V (typ) (nC)	NOTES
200	0.065	STU36NB20	36	70	
500	0.27	STU16NC50	16	95	
	0.33	STU16NB50	15.6	67	
	0.33	STU16NB50I	15.6	67	
	0.4	STU13NC50	13	75	
	0.45	STU13NB50	13	50	
	0.45	STU13NB50I	13		
600	0.45	STU13NB60	12.6	65	
	0.45	STU13NB60I	13		
	0.55	STU11NC60	11		
	0.55	STU11NB60I	11.5	65	
	0.55	STU11NB60	10.7	65	
700	0.75	STU10NC70Z	9.4	72	New HV PowerMESH III
	0.75	STU10NC70ZI	9.4	72	New HV PowerMESH III
800	0.8	STU10NB80I	10	70	
	0.8	STU10NB80	10	70	
	0.9	STU9NC80Z	8.6	71	New HV PowerMESH III
	0.9	STU9NC80ZI	8.6	72.2	New HV PowerMESH III
	1	STU9NB80I	9.3	53	
	1	STU9NB80	9.3	53	
900	1	STU8NB90	8.9	64	
	1	STU8NB90I	8.9	64	
	1.38	STU8NC90Z	7	70	New HV PowerMESH III
	1.38	STU8NC90ZI	7		New HV PowerMESH III
	1.45	STU7NB90I	7.4	51	
	1.45	STU7NB90	7.4	51	
1000	1.5	STU7NB100I	7		
	1.5	STU7NB100	7		

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	Q_g 10V (typ) (nC)	NOTES
400	0.26	STH18NB40FI	12.4	60	
500	0.36	STH15NB50FI	10.5	60	
600	0.54	STH13NB60FI	8.6	58	
800	0.9	STH9NC80ZFI	9.4	72.2	New HV PowerMESH III
900	1.45	STH8NB90FI	5		

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V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	Q_g 10V (typ) (nC)	NOTES
55	0.0065	STW80NF55-06	80	178	
60	0.01	STW80NE06-10	80	140	
100	0.022	STW60NE10	60	142	
	0.027	STW55NE10	55	123	
150	0.052	STW40NS15	50	100	
200	0.055	STW50NB20	50	84	
	0.065	STW38NB20	38	70	
	0.075	STW34NB20	34	60	
	0.085	IRFP250			
400	0.26	STW18NB40	18.4	60	
500	0.1	STW45NM50	45	100	MDmesh
	0.25	STW20NB50	20	85	
	0.27	IRFP460	18	100	
	0.27	STW20NC50	18.4	95	
	0.35	STW14NM50	14	28	MDmesh
	0.36	STW15NB50	14.6	60	
	0.4	STW14NC50	14	65	
	0.4	IRFP450	14	75	
	0.45	STW14NB50	14	50	
	0.52	STW12NC50	10	41	
600	0.35	STW16NB60	16	85	
	0.55	STW12NC60	12	65	Power Supply - Lighting
	0.54	STW13NB60	13	58	
	0.65	STW12NB60	12		
	0.75	STW10NC60	10	40	
	0.8	STW10NB60	10	40	
700	0.75	STW10NC70Z	10.6	72	New HV PowerMESH III
	1.2	STW9NC70Z	7.5	60	New HV PowerMESH III
	1.38	STW8NC70Z	7	47	
800	0.8	STW11NB80	11	70	
	0.9	STW9NC80Z	9.4	71	New HV PowerMESH III
	1.5	STW8NC80Z	6.7	57	New HV PowerMESH III
	1.6	STW8NB80	7.5	40	
	1.8	STW7NC80Z	6	45	New HV PowerMESH III
	1.9	STW7NB80	6.5	33	
900	1	STW9NB90	9.7	64	
	1.38	STW8NC90Z	7.6	70	New HV PowerMESH III
	1.45	STW8NB90	8	51	
	2	STW6NB90	6.3	40	
	2	STW7NC90Z	5.8	52	New HV PowerMESH III
	2.5	STW6NC90Z	5.2	40	New HV PowerMESH III
	2.5	STW5NB90	5.6	33	
1000	1.8	STW8NB100	7.3	68	
	2.8	STW6NB100	5.4	39	
	4.4	STW5NB100	4.3	32	

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	Q_g 10V (typ) (nC)	NOTES
200	0.022	STY100NS20FD	100	380	Industrial - Fast Recovery Body Diode
	0.032	STY60NA20	60	70	
500	0.13	STY34NB50	34	159	
	0.14	STY34NB50F	34	140	Fast Switching
600	0.24	STY25NA60	25	240	
900	0.54	STY16NA90	16	245	
1000	0.77	STY15NA100	15	470	

V_{DSS} (V)	$R_{DS(on)}$ 10V (W)	Type	$I_{D(cont)}$ (A)	Q_g 10V (typ) (nC)	NOTES
100	0.006	STE180NE10	180	142	
200	0.019	STE110NA20	110	470	
	0.022	STE110NS20FD	110	380	Indust. - Fast Recovery Body Diode
500	0.085	STE53NA50	53	470	
	0.1	STE53NM50	50	100	MDmesh
	0.13	STE38NB50	38	159	
	0.14	STE38NB50F	38	140	Fast Switching
600	0.135	STE40NA60	40	460	
900	0.3	STE26NA90	26	470	
1000	0.375	STE24NA100	24	470	
	0.77	STE15NA100	15	470	

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