

Power MOSFETs - continued

V<sub>DS</sub> ≥ 100V - continued

Mfrs. List No.	Order Code	1+	25+	100+	250+	+
BSP298.	410-9107	99.00	76.00	62.00	--	--
BSP299.	516-727	98.00	75.00	60.00	--	--
BSP317.	548-601	58.00	44.00	36.00	--	--
BSP324.	410-9120	72.00	55.00	44.00	--	--
BSP372.	548-571	56.00	45.00	37.00	22.00	--
BSP373.	743-707	56.00	45.00	37.00	22.00	--
BSP89.	743-719	36.00	28.00	24.00	15.00	--
IRFL110	357-2560▲	49.00	40.00	37.00	--	--
IRFL210	357-2559▲	53.00	44.00	39.00	--	--
IRFL214	362-0803▲	79.00	56.00	48.00	46.00	--
IRFL4310	706-504▲	56.00	--	--	--	--
IRFL4315PBF	865-8331●	39.00	28.00	22.00	18.00	--
IRFL9110	538-371▲	62.00	52.00	46.00	--	--
IRLL110	362-1080▲	50.00	42.00	35.00	--	--
IRLL110PBF	865-1213●	73.00	52.00	40.00	34.00	--
ZVN2110G.	707-946▲‡	85.00	61.00	40.00	26.00	--
ZVN4424G.	707-958▲‡	109.00	78.00	51.00	33.00	--
ZVP4424G.	707-971▲‡	83.00	62.00	42.00	31.00	--
ZVN2120G	302-7259	85.00	61.00	40.00	26.00	--
ZVP2120G	302-7260	48.00	35.00	24.00	19.00	--

150V to 600V

V <sub>DS</sub> V	R <sub>DS(on)</sub> Ω	I <sub>D cont</sub> @ 25°C A	I <sub>D</sub> pulsed A	P <sub>D</sub> @ 25°C W	Mfrs. List No.
<b>N Channel</b>					
150	0.18	14	56	86	IR IRFR13N15DPBPF
150	0.125	18	72	110	IR IRFR18N15D
150	0.095	24	96	140	IR IRFR24N15DPBPF
200	3	1.9	7.6	25	IR IRFR9210PBF
200	1.5	3.6	14	42	IR IRFR9220PBF
200	1.5	2.6	10	25	IR IRFR210PBF
200	0.8	4.8	19	42	IR IRFR220
200	0.8	4.8	19	42	IR IRFR220PBF
200	0.7	6	18	50	ON MTD6N20
200	0.6	5.0	20	43	IR IRFR220NPBF
200	0.38	9.4	38	86	IR IRFR9N20D
200	0.38	9.4	38	86	IR IRFR9N20DPBPF
200	0.235	13	52	110	IR IRFR13N20D
200	0.235	13	52	110	IR IRFR13N20DPBPF
200	0.165	17	68	140	IR IRFR15N20DPBPF
250	1.1	3.8	15	42	IR IRFR224
250	1.1	3.8	15	42	IR IRFR224PBF
250	0.26	14	56	144	IR IRFR12N25DPBPF
400	7	1.8	7.2	50	IR IRFR9310PBF
400	3.6	1.7	6	25	IR IRFR310
400	3.6	1.7	6	25	IR IRFR310PBF
400	1.8	3.1	12	42	IR IRFR320
400	1.8	3.1	12	42	IR IRFR320PBF
500	3	2.4	8	42	IR IRFR420
500	3	2.4	8	42	IR IRFR420PBF
500	3	3.3	10	83	IR IRFR420APBPF
500	1.7	5	20	110	IR IRFR430APBPF
600	4.4	2	8	42	IR IRFRC20
600	4.4	2	8	42	IR IRFRC20PBF
600	3.3	2.4	9.6	45	ST STD3NK60Z..
<b>P Channel</b>					
150	0.295	13	44	110	IR IRFR6215
150	0.295	13	44	110	IR IRFR6215PBF
200	3	1.9	7.6	25	IR IRFR9210
200	1.5	3.6	14	42	IR IRFR9220

Mfrs. List No.	Order Code	1+	25+	100+	250+	+
IRFR9310PBF	864-9910●	70.00	50.00	38.00	33.00	--
IRFR9N20DPBPF	864-9928●	70.00	50.00	41.00	37.00	--
IRFRC20	357-2407▲	67.00	48.00	39.00	36.00	--
IRFRC20PBF	864-9936●	67.00	48.00	37.00	32.00	--
MTD6N20	259-597▲	73.00	61.00	46.00	40.00	--
STD3NK60Z..	483-3211▲‡	58.00	45.00	36.00	27.00	--

TO-252 (D-Pak), Logic Level



H=2.55, W=6.8,  
D=10.5



Footprint

V <sub>DS</sub> V	R <sub>DS(on)</sub> Ω	I <sub>D cont</sub> @ 25°C A	I <sub>D</sub> pulsed A	V <sub>GS(th)</sub> max. (*min.) V	P <sub>D</sub> @ 25°C W	Mfrs. List No.
<b>N Channel</b>						
12	0.0085	84	320	1.9	88	IR IRLR3802PBF
20	0.014	54	210	3	71	IR IRLR3715PBF
20	0.020	36	120	3	47	IR IRLR3714PBF
20	0.0085	40	100	0.6*	71	SLX SUD40N02-08
30	0.045	22	96	1*	38	IR IRLR2703PBF
30	0.035	20	60	2.5	20	ON MTD20N03HDL
30	0.031	33	140	1*	57	IR IRLR3303PBF
30	0.030	30	40	1.0*	50	SLX SUD30N03-30
30	0.019	45	69	2	69	IR IRLR3103
30	0.019	45	69	1*	69	IR IRLR3103PBF
30	0.018	44	196	1.0*	62	IR IRLR8503PBF
30	0.015	68.9	240	2.5	111	PH PHD63N0303LT.
30	0.014	25	140	1*	50	ST STD35NF3LL.
30	0.012	75	240	2.5	120	PH PHD71N0303LT.
30	0.011	50	100	0.8*	67.5	SLX SUD50N03-11
30	0.010	20	100	0.8*	30	SLX SUD50N03-10BPF.
30	0.01	65	260	1.0*	75	IR IRLR7821
30	0.0079	91	363	3	115	IR IRLR8103VPBPF
30	0.0083	75	240	2.5	136	PH PHD82N0303LT.
30	0.008	65	100	2	70	FCH FDD6672A..
30	7.5	60	240			ST STD60NF3LL
30	0.007	25	100	1.0*	88	SLX SUD50N03-07AP.
30	0.0068	110	120	3	140	IR IRLR8203PBF
30	0.0058	75	240	2.5	166	PH PHD101N0303LT.
40	0.010	40	100	1.0*	71	SLX SUD40N04-10A
50	0.12	14	35	2	40	FCH RFD14N05LSM.
50	0.047	16	45	2	60	FCH RFD16N05LSM.
55	0.14	10	40	1*	28	IR IRLR014NPBF
55	0.037	25	100	3	57	IR IRLR3105PBF
55	0.027	36	160	2	69	IR IRLR2905PBF
55	0.027	36	160	2	69	IR IRLR2905PBF
55	0.020	35	80	1.0*	50	SLX SUD35N05-26L
55	0.014	61	240	3	120	IR IRLR3915PBF
60	0.25	8		2.5		ST STD8N06L
60	0.2	7.7	31	2	25	IR IRLR014PBF
60	0.2	7.7	31	2	25	IR IRLR014PBF
60	0.18	12		2.5	20	ON MTD3055VL
60	0.085	15	53	2	60	ON MTD15N06VL
60	0.08	12	48	2	30	ST STD12NF06L.
60	0.08	12	48	2	30	ST STD12NF06L
60	0.063	16.8	67.2	4	2.5	FCH FDD20N06.
60	0.045	20		2.5	20	ON MTD20N06HDL
60	0.035	25	30	3	50	SLX SUD45P03-10..
60	0.035	25	30	3	50	SLX SUD25N06-45L
60	32	24	96			ST STD20NF06L
60	25	30	120			ST STD30NE06L
60	0.022	30	100		75	SLX SUD40N06-25L
80	0.028	39	150	2.5	120	IR IRLR2908PBF
80	0.016	40	60	2.0*	100	SLX SUD40N08-16
100	0.54	4.3	17	2	25	IR IRLR110PBF
100	0.27	7.7	31	2	42	IR IRLR120PBF
100	0.22	10	35	2	45	ON MTD10N10EL
100	0.13	13	52	4	50	ST STD10NF10..
100	0.105	17	60	2	79	IR IRLR3410PBF
100	0.105	17	60	2	79	IR IRLR3410PBF
100	0.03	25	100	2.5	100	ST STD25NF10.
150	0.077	15	25	2.0*	62	SLX SUD15N15-95
60	0.063	16.8	67.2	*	2.5	FCH FDD20N06
200	0.28	9	36	5	2.5	FCH FDD12N20
250	0.42	7.4	29.6	5	2.5	FCH FDD9N25
500	5.3	1.6	6.4	5	2.5	FCH FDD2N50
600	11.5	1	4	5	2.5	FCH FDD1N60
800	6.3	1.8	7.7	5	2.5	FCH FDD2N80
<b>N Channel HEXFETs Optimised for DC-DC Converters</b>						
30	0.018	44	196	1.0*	62	IR IRLR8503
30	0.0079	91	363	1.0*	115	IR IRLR8103V
<b>P Channel</b>						
30	0.015	13	100	1.0*	70	SLX SUD45P03-15
30	0.015	15	100	1.0*	70	SLX SUD45P03-15A
40	0.015	50	150	1.0*	100	SLX SUD50P04-15
60	0.15	20		2.5	20	ON MTD20P06HDL
60	0.1	15	45	3	42	FCH FDD5614P 211183

Semiconductors - Discretes

21

383323

Mfrs. List No.	Order Code	1+	25+	100+	250+	+
IRFR12N25DPBPF	865-8706●	98.00	70.00	54.00	46.00	--
IRFR13N15DPBPF	865-8714●	64.00	46.00	35.00	30.00	--
IRFR13N20D	353-8000▲	93.00	67.00	56.00	--	--
IRFR13N20DPBPF	864-9677●	84.00	60.00	46.00	40.00	--
IRFR15N20DPBPF	865-8722●	84.00	60.00	46.00	40.00	--
IRFR18N15D	353-7936▲	85.00	62.00	--	--	--
IRFR210PBF	864-9685●	55.00	39.00	32.00	29.00	--
IRFR220	996-002▲	56.00	43.00	36.00	33.00	--
IRFR220NPBF	864-9693●	40.00	29.00	24.00	21.00	--
IRFR220PBF	864-9707●	56.00	40.00	31.00	26.00	--
IRFR224	362-0864▲	46.00	--	--	--	--
IRFR224PBF	864-9715●	63.00	45.00	35.00	30.00	--
IRFR24N15DPBPF	865-8730●	91.00	65.00	50.00	43.00	--
IRFR310	357-2420▲	57.00	41.00	--	--	--
IRFR310PBF	864-9740●	56.00	40.00	35.00	31.00	--
IRFR320	357-2389▲	51.00	--	--	--	--
IRFR320PBF	864-9758●	76.00	54.00	44.00	40.00	--
IRFR420	168-117▲	52.00	42.00	34.00	--	--
IRFR420APBPF	865-8838●	70.00	50.00	38.00	33.00	--
IRFR420PBF	864-9812●	56.00	40.00	31.00	26.00	--
IRFR430APBPF	865-8846●	84.00	60.00	46.00	40.00	--
IRFR6215	393-9182▲	54.00	43.00	34.00	28.00	--
IRFR6215PBF	864-9847●	48.00	35.00	27.00	23.00	--
IRFR9N20D	353-8011▲	62.00	47.00	38.00	--	--
IRFR9N20DPBPF	864-9928●	70.00	50.00	41.00	37.00	--
IRFR9210	362-0888▲	53.00	--	--	--	--
IRFR9220	357-2390▲	66.00	--	--	--	--
IRFR9220PBF	864-9901●	70.00	50.00	38.00	33.00	--