Mftrs. List No.		Order Code	Price Each 1+	25+	100+	250+	+
PH2520U.	SMD	756-4244● ‡	168.00	101.00	87.00	83.00	– –
PH2925U.		756-4252● ‡	168.00	101.00	87.00	83.00	– –
PH3230S..		756-4260●	162.00	98.00	84.00	80.00	– –
PH3830L.		756-4279● ‡	156.00	94.00	81.00	77.00	– –
PH7030L.		756-4287● ‡	103.00	62.00	54.00	51.00	– –
PH8230E.		756-4295●	98.00	59.00	51.00	48.00	– –

FlipFET ™ P Channel HEXFET

International IOR Rectifier

NEW

SMD

- Ultra low R_{DS} per footprint area
- Low thermal resistance
- One third footprint of SOT-23
- Super low profile (less than 0.8 mm)

H=1.524, W=1.524, D=0.537

The FlipFET ™ package, is one-third the footprint of a comparable SOT-23 package.
Has a profile of less than .8mm. Combined with the low thermal resistance of the die level device, this makes the FlipFET ™ desirable for applications where printed circuit board space is at a premium.
Due to the low-profile the device is ideal for thin application environments such as battery packs, cell phones and PCMCIA cards.

V_{DSS} V	P_D W	R_{DS} mΩ	I_D A	I_{DM} A	Mftrs List No.
-20	2.2	65	5.1*	35	IRF6100PBF

* = repetitive rating; pulse width limited by max, junction temperature, V_{GS} = 4.5 V

419386

Mftrs. List No.	Order Code	Price Each 1+	25+	100+	250+
IRF6100PBF	107-8406●	44.00	32.00	25.00	21.00

DirectFET™ MOSFETS

International IOR Rectifier

SMD

NEW

- 1.4°C/W junction to case thermal resistance enable effective top-side cooling
- Less than 1°C/W $R_{th(junction-pcb)}$ in same footprint as SO-8
- Over 90% lower die-free package resistance than SO-8
- 0.7mm profile compared with 1.75mm for SO-8
- Up to 50°C lower operating temperature increases reliability

The DiredtFET power package is a breakthrough surface-mount power MOSFET packaging technology. It has the footprint of an SO-8 package and a profile of only 0.7mm. A benefit of this package is the bottom side cooling which is designed to reduce the part count and therefore the board space used by as much as 50% compared with standard SO-8 packages. This means a higher currenty density and lower total system cost. Both conduction and switching losses are also reduced due to low resistance, low charge and ultra-low package inductance. This range of MOSFETs are suitable for a number of applications including high-efficiency DC-to-DC converters, synchronous rectification and CTRL FET notebooks and desktops.

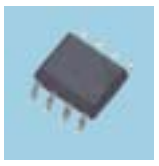
V_{DS} V	$R_{DS(on)}$ @ V_{GS} = 10V mΩ	$I_{D\ cont}$ @ 25°C A	I_D pulsed A	$V_{GS(th)}$ min. V	P_D @ 25°C W	Package Type	Mftrs. List No.
20	1.65	30	240		2.8	MX	IRF6619
20	1.8	32	260		2.8	MT	IRF6691TR1
20	2.0	150	250	1.55	2.8	MT	IRF6609TR1
20	2.7	150	220	1.55	2.8	MX	IRF6620TR1
20	3.2	18	140		2.2	ST	IRF6636TR1
20	4.1	16	132		2.3	MP	IRF6633TR1
20	4.1	16	132		2.3	MP	IRF6633
20	5.7	55	120	1.3	2.1	ST	IRF6623TR1
20	8.2	12	120		2.2	SQ	IRF6610TR1
30	1.3	25	250		2.8	MX	IRF6635TR1
30	1.7	30	240		2.8	MX	IRF6678TR1
30	2	32	220		3.9	MX	IRF6611TR1
30	2.2	170	240	1.35	2.8	MX	IRF6618TR1
30	3.3	24	190		2.8	MX	IRF6612TR1
30	3.4	92	200	1.4	3.6	MT	IRF6603TR1
30	4	16	16		2.2	ST	IRF6626TR1
30	4.4	95	220	1.3	2.3	MT	IRF6607TR1
30	5.7	14	110		2.3	MP	IRF6637TR1
30	7	12	96		2.2	SQ	IRF6621TR1
30	8.1	14	120		2.1	ST	IRF6617TR1
30	9.0	55	100	1.0	2.1	ST	IRF6608TR1
30	11.5	59	92	1.0	2.3	MQ	IRF6604TR1
40	4.6	19	150		2.8	MX	IRF6616TR1
40	3.4	23	180		2.8	MT	IRF6613TR1
60	5.5	86	260		2.8	MN	IRF6648TR1
80	7.6	12	96		2.8	MN	IRF6646TR1
40	8.3	55	102	1.35	2.1	ST	IRF6614TR1
100	10.3	10.3	82		2.8	MN	IRF6644TR1
100	53	19	34		2.2	SH	IRF6665TR1
100	62	19	34	2.8	4.2	SH	IRF6655TR1

405796

Mftrs. List No.		Order Code	Price Each 1+	25+	100+	+	+
IRF6619	SMD	107-6299●	146.00	104.00	85.00	77.00	– –
IRF6633	SMD	107-6300●	114.00	82.00	62.00	54.00	– –
IRF6603TR1	SMD	926-6526●	170.00	122.00	93.00	80.00	– –
IRF6604TR1	SMD	926-6534●	121.00	86.00	66.00	57.00	– –
IRF6607TR1	SMD	926-6542●	180.00	129.00	98.00	85.00	– –
IRF6608TR1	SMD	926-6550●	121.00	86.00	66.00	57.00	– –
IRF6609TR1	SMD	926-6569●	184.00	132.00	101.00	87.00	– –
IRF6610TR1	SMD	107-8407●	101.00	73.00	55.00	48.00	– –
IRF6611TR1	SMD	107-8408●	157.00	112.00	86.00	74.00	– –
IRF6612TR1	SMD	107-8411●	149.00	107.00	82.00	70.00	– –
IRF6613TR1	SMD	107-8412●	179.00	128.00	98.00	84.00	– –
IRF6614TR1	SMD	926-6577●	104.00	75.00	57.00	49.00	– –
IRF6616TR1	SMD	107-8413●	124.00	89.00	68.00	58.00	– –
IRF6617TR1	SMD	107-8414●	126.00	90.00	73.00	67.00	– –
IRF6618TR1	SMD	926-6585●	190.00	136.00	104.00	90.00	– –
IRF6619TR1	SMD	107-8415●	152.00	109.00	83.00	71.00	– –
IRF6620TR1	SMD	926-6593●	144.00	104.00	79.00	68.00	– –
IRF6621TR1	SMD	107-8416●	110.00	79.00	60.00	52.00	– –
IRF6623TR1	SMD	926-6607●	115.00	82.00	67.00	61.00	– –
IRF6626TR1	SMD	107-8417●	138.00	99.00	75.00	65.00	– –
IRF6633TR1	SMD	107-8418●	118.00	85.00	65.00	56.00	– –
IRF6635TR1	SMD	107-8419●	195.00	140.00	107.00	92.00	– –
IRF6636TR1	SMD	107-8420●	126.00	91.00	69.00	60.00	– –
IRF6637TR1	SMD	107-8421●	132.00	95.00	73.00	62.00	– –
IRF6644TR1	SMD	107-8423●	190.00	136.00	104.00	89.00	– –
IRF6646TR1	SMD	107-8424●	198.00	142.00	109.00	93.00	– –
IRF6655TR1	SMD	926-6615●	115.00	82.00	63.00	54.00	– –
IRF6665TR1	SMD	107-8425●	123.00	88.00	67.00	58.00	– –
IRF6678TR1	SMD	107-8426●	180.00	129.00	98.00	85.00	– –
IRF6691TR1	SMD	107-8427●	214.00	153.00	117.00	101.00	– –
IRF6648TR1	SMD	108-4634●	175.00	126.00	96.00	83.00	– –

SO-8

SMD



H=1.75, W=6.3, D=5.2

Pin Configurations

	1	2	3	4	5	6	7	8
a	NC	S	S	G	D	D	D	D
b	S	S	S	G	D	D	D	D
c	S1	G1	S2	G2	D2	D2	D1	D1

Single or dual high performance MOSFETs in a space efficient, small outline package.

V_{DS} V	$R_{DS(on)}$ Ω	$I_{D\ cont}$ @ 25°C A	I_D pulsed A	P_D @ 25°C W	Pin Config.	Mftr.	Mftrs. List No.
Single N-Channel							
20	0.035	6.8	54	2.5	b	IR	IRF7402PBF
20	0.022	8.7	35	2.5	b	IR	IRF7401PBF
20	0.06	5.3	21	2.5	b	IR	IRF7204PBF
30	0.03	7	37	2.5	a	IR	IRF9410PBF
30	0.03	7.3	58	2.5	b	IR	IRF7201PBF
30	0.022	6.7	27	1.6	b	IR	IRF7403PBF
40	7.7	21.2	60	6.25	b	PS	PHK24NQ04LT
30	0.01	12	48	2.5	b	ST	STS12NF30L
30	0.01	12	58	2.5	b	IR	IRF7413PBF
30	0.0078	13	52	2.5	b	INF	BSO4420
30	6.5	23.7	60	6.25	b	PS	PHK28NQ03LT
30	4.4	20	60	3.5	b	PS	PSMN005-30K
40	7.7	21.2	60	6.25	b	PS	PHK24NQ04LT
100	28	11.6	48	8.9	b	PS	PHK12NQ10T
150	75	5	20	6.25	b	PS	PHK5NQ15T
200	130	4	16	6.25	b	PS	PHK4NQ20T
Single P-Channel							
12	0.024	8.7	36	2.5	b	IR	IRF7433.PBF
12	0.014	11.5	46	2.5	b	IR	IRF7420PBF
12	0.007	16	65	2.5	b	IR	IRF7410PBF
20	0.04	5.3	21	1.6	b	IR	IRF7404PBF
20	0.03	7.0	28		b	IR	IRF7331PBF
30	0.25	2.5	10	2.5	a	FCH	NDS9400A
30	0.07	4.6	15	2.5	b	IR	IRF7205
30	0.05	5.3	15	2.5	b	FCH	NDS9435A
30	0.045	5.2	20	1.6	b	IR	IRF7406PBF
30	0.02	8.8	45	2.5	b	IR	IRF7416PBF
30	0.0135	11	47	2.5	b	IR	IRF7424.PBF
40	0.041	6.2	25	2.5	b	IR	IRF7241PBF
Dual N-Channel							
20	0.10	3.5	14	2	c	IR	IRF7101PBF
30	0.08	3.7	15	2	c	FCH	NDS9956A
20	0.05	4.3	17	1.4	c	IR	IRF7301PBF
20	20	10.9	44	4.17	c	PS	PHKD6N02LT
30	0.1	3.5	16	2	c	IR	IRF9956PBF
30	0.05	4.9	20	2	c	IR	IRF7303PBF
30	0.03	6.7	15	2	c	FCH	NDS8936
50	0.13	3	10	2	c	IR	IRF7103PBF
Dual P-Channel							
20	0.053	4.2	23	1.4	c	IR	IRF7314PBF
30	0.25	2.3	10	2	c	IR	IRF9953PBF
30	0.2	2.9	10	2	c	FCH	NDS9953A
55	0.105	3.4	27	2	c	IR	IRF7342PBF
30	0.1	3	12	1.4	c	IR	IRF7306PBF
30	0.1	4	—	2	c	FCH	NDS8947
30	0.058	4.9	30	2	c	IR	IRF7316PBF
55	0.05	4.7	38	2	c	IR	IRF7341PBF

● Compliant
▲ Non-compliant
‡ Limited stock - RoHS replacement available

RoHS