

Power MOSFETs — continued

SO-8, Little Foot



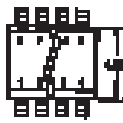
V <sub>DS</sub> (V)	R <sub>DS</sub> (on) (Ohms)			I <sub>D</sub> (A)	Typ. Qg (nC)	Configuration	Mfrs. List No.
	V <sub>GS</sub> = 10V	V <sub>GS</sub> = 4.5V	V <sub>GS</sub> = 2.5V				
<b>Single N-Channel, Low Gate Threshold V<sub>GS</sub>=2.5V</b>							
20	—	0.009	0.013	±13.2	50.0	Single	Si4466DY
<b>Dual N-Channel, Low Gate Threshold V<sub>GS</sub>=2.5V</b>							
20	—	0.025	0.035	±7.2	25.0	Dual	Si4966DY
<b>Single N-Channel, 30V to 100V</b>							
30	0.030	0.050	—	±7.0	24.0	Single	Si9410DY
30	0.028	0.042	—	±7.0	19.5	Single	Si4412DY
30	0.009	0.013	—	±12.5	70.0	Single	Si4420DY
60	0.024	0.030	—	±7.5	31.0	Single	Si4450DY
100	0.060	0.08 @ 6V	—	±4.6	30.0	Single	Si4482DY
<b>Dual N-Channel, 30V to 100V</b>							
20	—	0.200	—	±3.5	—	Dual	Si9956DY
30	0.050	0.080	—	±5.0	13.5	Dual	Si9936DY
30	0.025	0.035	—	±6.9	30.0	Dual	Si4920DY
60	0.055	0.075	—	±4.5	19.0	Dual	Si4946EY
<b>Single P-Channel, Low Gate Threshold V<sub>GS</sub>=2.5V</b>							
-12	—	0.040	0.060	±6.4	30.0	Single	Si9434DY
-12	—	0.025	0.033	±7.7	46.0	Single	Si9424DY
-20	—	0.014	0.020	±10.0	48.0	Single	Si4463DY
<b>Dual P-Channel, Low Gate Threshold V<sub>GS</sub>=2.5V</b>							
-20	—	0.075	0.115	±3.4	10.0	Dual	Si9933ADY
-20	—	0.033	0.050	±6.2	22.0	Dual	Si4963DY
<b>Single P-Channel, -20V to -60V</b>							
-20	—	0.160	—	±4.3	—	Single	Si9405DY
-20	0.050	0.090	—	±5.8	27.0	Single	Si9430DY
-30	0.014	0.023	—	±11.0	74.0	Single	Si4425DY
<b>Dual P-Channel, -20V to -60V</b>							
-20	0.250	0.400	—	±2.3	6.7	Dual	Si9953DY
-30	0.032	0.045	—	±6.1	32.0	Dual	Si4925DY
-60	0.170	0.260	—	±2.6	10.0	Dual	Si9948AEY-T1
-60	0.120	0.150	—	±3.1	16.0	Dual	Si4948EY
<b>Dual N/P-Channel, Low Gate Threshold V<sub>GS</sub>=2.5V</b>							
20	—	0.030	0.040	±6.0	21.0	N-Channel	} Si9529DY
-12	—	0.050	0.074	±5.0	21.0	P-Channel	
20	—	0.025	0.035	±7.1	25.0	N-Channel	} Si4562DY
-20	—	0.033	0.050	±6.2	22.0	P-Channel	
<b>Dual N/P-Channel, 25V to 60V</b>							
30	0.050	0.080	—	±3.5	14.0	N-Channel	} Si9939DY
-30	0.100	0.160	—	±3.5	14.5	P-Channel	
30	0.025	0.035	—	±6.9	30.0	N-Channel	} Si4542DY
-30	0.032	0.045	—	±6.1	32.0	P-Channel	

SD433 / SD433A

Price Each

Mfrs. List No.	Order Code	1+	25+	100+	250+	1K+
Si4412DY	473-704					
Si4420DY	473-728					
Si4425DY	473-730					
Si4450DY	473-753					
Si4463DY	473-765					
Si4466DY	473-777					
Si4482DY	473-790					
Si4542DY	473-820					
Si4562DY	473-868					
Si4920DY	473-870					
Si4925DY	473-881					
Si4946EY	473-900					
Si4948EY	473-911					
Si4963DY	473-935					
Si4966DY	473-947					
Si9405DY	291-444					
Si941DY	291-456					
Si9424DY	739-315					
Si9430DY	291-468					
Si9434DY	663-773					
Si9529DY	473-996					
Si9933ADY	474-010					
Si9936DY	663-797					
Si9939DY	663-785					
Si9948AEY-T1	474-034					
Si9953DY	291-791					
Si9956DY	430-432					

SO-8 Logic Level



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. All devices may be driven directly by 5V logic signals.

Single/ Dual	V <sub>DS</sub> V	N or P Channel	R <sub>DS</sub> (on) Ω	I <sub>D</sub> cont @ 25°C A	I <sub>DM</sub> Pulsed A	P <sub>D</sub> @ 25°C W	Pin Config.	Mfrs. List No.
Single	20	N	0.022	8.7	35	2.5	b	IR IRF7401
Single	20	P	0.04	5.3	21	1.6	b	IR IRF7404
Single	30	N	0.03	7.0	37	2.5	a	IR IRF9410
Single	30	N	0.025	7.0	42	2.5	b	ST STS7NF30L
Single	30	N	0.022	6.7	27	1.6	b	IR IRF7403
Single	30	N	0.0135	12.0	58	2.5	b	IR IRF7413A
Single	30	N	0.01	12.0	48	2.5	b	ST STS12NF30L
Single	30	N	0.01	12.0	58	2.5	b	IR IRF7413
Single	30	P	0.25	2.5	10	2.5	a	FCH NDS9400A
Single	30	P	0.05	5.3	15	2.5	b	FCH NDS9435A
Single	30	P	0.045	5.2	20	1.6	b	IR IRF7406
Single	30	P	0.02	8.8	45	2.5	b	IR IRF7416
Dual	12	N	0.05	3.5	20	2.0	c	HAR RF1K49090
Dual	20	N	0.1	3.5	14	2.0	c	FCH NDS9956A
Dual	20	N	0.05	4.3	17	1.4	c	IR IRF7301
Dual	20	P	0.4	2.3	10	2.5	c	FCH NDS9953
Dual	20	P	0.11	3.2	10	2.0	c	FCH NDS9933
Dual	20	P	0.053	4.2	23	1.4	c	IR IRF7314
Dual	20	N	0.25	3.0	10	} 2.5	c	FCH NDS9943
Dual	20	P	0.3	2.8	10			
Dual	30	N	0.1	3.5	16	2.0	c	IR IRF9956
Dual	30	N	0.08	5.0	20	2.0	c	HIT HAT2016R
Dual	30	N	0.05	4.9	20	2.0	c	IR IRF7303
Dual	30	N	0.03	6.7	15	2.0	c	FCH NDS8936
Dual	30	P	0.25	2.3	10	2.0	c	IR IRF9953
Dual	30	P	0.25	2.3	10	2.0	c	FCH NDS9953A
Dual	30	P	0.1	3.0	12	1.4	c	IR IRF7306
Dual	30	P	0.1	4.0	—	2.0	c	FCH NDS8947
Dual	30	P	0.058	4.9	30	2.0	c	IR IRF7316
Dual	30	N	0.1	3.5	16	} 2.0	c	IR IRF9952
Dual	30	P	0.25	2.3	10			
Dual	30	N	0.05	4.0	16	} 1.4	c	IR IRF7309
Dual	30	P	0.1	3.0	12			
Dual	60	N	0.2	3.5	10	2.0	c	FCH Si9945DY

SD169 / SD169A

Mfrs. List No.	Order Code	1+	25+	100+	250+	1K+
HAT1024R	739-390 †					
HAT2016R	739-406 †					
IRF7301	538-450					
IRF7303	167-976					
IRF7306	538-486					
IRF7309	538-504					
IRF7311	934-550					
IRF7314	934-574					
IRF7316	934-586					
IRF7401	167-988					
IRF7403	538-413 †					
IRF7404	538-449					
IRF7406	538-437					
IRF7413	706-530					
IRF7413A	167-990					
IRF7416	706-541					
IRF9410	934-604					
IRF9952	934-630					
IRF9953	934-641					
IRF9956	934-653					
NDS8936	707-170					
NDS8947	707-181					
NDS9400A	707-193					
NDS9435A	707-211					
NDS9933	707-223					
NDS9943	518-372					
NDS9953	518-384					
NDS9953A	707-235					
NDS9956A	707-247					
RF1K49090	548-893					
STS12NF30L	323-9378					
STS7NF30L	323-9380					

† Available until stocks are exhausted

'Fetky'™ Combined HEXFET and Schottky Diode

International Rectifier



SO-8



TO-220

V <sub>DS</sub> V	N/P Chnl.	R <sub>DS</sub> (on) Ω	I <sub>D</sub> @ 25°C A	I <sub>DM</sub> A	V <sub>GS</sub> (th) max. V	P <sub>D</sub> @ 25°C W	Schottky Diode			Mfrs. List No.
							I <sub>F</sub> (av) A	V <sub>FM</sub> V	I <sub>FSM</sub> A	
20	P	0.09	4.6	23	4.0	2.5	4.0	0.52	20	SO-8 IRF7422D2
30	N	0.035	6.4	33	4.0	2.5	4.0	0.42	15	SO-8 IRF7421D1
30	N	0.014	54	220	1.0	2.0	2.0	0.5	220	TO-220 IRL3103D1

SD353

Mfrs. List No.	Order Code	1+	25+	100+	250+
IRF7421D1	740-860				
IRF7422D2	740-871				
IRL3103D1	934-537				