

"Off The Shelf Inventory"

DIE samples available from stock!

MOSFET DIE	Channel	V _{DS}	I _D	R _{DS(ON) 1}			R _{DS(ON) 2}			V _{GS(th)}		Q _{G (typ)}	Die Size
INDUSTRY PN		Volts	Amps	ohms	V _{GS}	I _{D1}	ohms	V _{GS}	I _{D2}	min	max	nC	mils
SI1012D	N	20	0.35	0.70	4.5V	0.6A	1.25	1.8V	0.35A	0.45V	0.9V	0.75	17 X 17
SI2302AD	N	20	2.4	0.115	2.5V	3.1A	0.085	-4.5V	-3.5A	0.65V	1.2V	4	30 X 68
VN0300L	N	30	0.64	1.2	10V	1.0A	2	2.5V	0.25A	0.5V	2.0V	n/a	38 X 38
Si2318C	N	40	5.6	0.042	10V	4.3A	0.051	4.5V	3.9A	1.2V	2.5V	2.9	52 x 32
Si7848	N	40	16	.009	10V	16A	0.012	4.5V	13.8A	1.0V	3.0V	15	98 X 125
Si1022	N	60	0.33	1.25	10V	0.5A	3.0	4.5V	0.2A	1.0V	2.5V	0.6	17 X 17
2N6660	N	60	0.99	3.0	10V	1.0A	5.0	5.0V	0.3A	0.8	2.0	n/a	37 X 37
Si3458BDV	N	60	4.1	0.1	10V	3.2A	0.128	4.5V	2.8A	1.5V	3.0V	7.1	52 x 32
IRFC024D	N	60	17	0.10	10V	10A	n/a	n/a	n/a	2.0V	4.0V	25	102 X 126
Si7460DP	N	60	18	0.0096	10V	18A	0.012	4.5V	16A	1.0V	1.3V	65	151 x 128
IRFC044D	N	60	50	0.028	10V	31A	n/a	n/a	n/a	2.0V	4.0V	67	225 X 168
SUP60N06-12P	N	60	60	0.012	10V	30A	n/a	n/a	n/a	2.5V	4.5V	33	
IRFC054D	N	60	70	0.014	10V	54A	n/a	n/a	n/a	2.0V	4.0V	160	257 X 257
SUP90N10-8m2P	N	75	90	0.0082	10V	20A	n/a	n/a	n/a	2.8V	4.8V	58	172 x 142
2N6661	N	90	0.9	4.0	10	1.0A	5.3	5.0V	0.3A	0.8	2.0	n/a	38 X 38
VN88AFD	N	90	0.9	Same device as 2N6661, see for details									
Si7810DN	N	100	5.4	0.062	10V	5.4A	0.084	6.0V	4.6A	2.0V	4.5V	13.5	65 X 93
IRFC110D	N	100	5.6	0.6	10V	3.4A	n/a	n/a	n/a	2.0V	4.0V	8.3	87 X 64
Si7454DP	N	100	7.8	0.034	10V	7.8A	0.04	6.0V	7.2A	2.0V	4.0V	24	111 x 98
Si4486EY	N	100	7.9	0.025	10V	7.9A	0.028	6.0V	7.5A	2.0V	n/r	36	156 x 98
IRFC120D	N	100	9.2	0.27	10V	5.5A	n/a	n/a	n/a	2.0V	4.0V	16	115 X 82
IRFC130D	N	100	14	0.16	10V	8.4A	n/a	n/a	n/a	2.0V	4.0V	26	106 X 148
Si4090D	N	100	19.7	0.01	10V	15A	0.012	6.0V	10A	2.0V	3.3V	45.6	158 x 99
IRFC140D	N	100	28	0.077	10V	17A	n/a	n/a	n/a	2.0V	4.0V	72	170 X 192
SUD40N10-25	N	100	40	0.025	10V	40A	0.028	4.5V	20A	1.0V	3.0V	40	147 x 117
SUM90N10-8m2P	N	100	90	0.0082	10V	20A	0.017	n/a	n/a	n/a	2.5V	3.5V	230 x 172
IRFC220D	N	200	0.8	Obsolete, see SiHFC220D device for recommended replacement									
SiHFC220D	N	200	0.8	0.8	10V	0.48A	n/a	n/a	n/a	2.0V	4.0V	14 max	80 X 98
IRFC210D	N	200	3.3	1.5	10V	2A	n/a	n/a	n/a	2.0V	4.0V	8.2	87 X 67
IRFC230D	N	200	9	0.4	10V	5.4A	n/a	n/a	n/a	2.0V	4.0V	43	180 X 115
IRFC240D	N	200	18	0.18	10V	11A	n/a	n/a	n/a	2.0V	4.0V	70	219 X 162
IRFC250D	N	200	30	0.085	10V	18A	n/a	n/a	n/a	2.0V	4.0V	140	240 X 236
BS107KL	N	240	0.2	4	10V	0.3A	6	2.5V	0.1A	0.8V	2.0V	4.87	49 x 32
TN2404K	N	240	0.2	4	10V	0.3A	6	2.5V	0.1A	0.8V	2.0V	4.87	49 x 32
Si7434D	N	250	3.8	0.155	10V	3.8A	0.162	6.0V	3.7A	2.0V	4.0V	34	151 x 99
IRFC320D	N	400	3.3	1.8	10V	2.0A	n/a	n/a	n/a	2.0V	4.0V	20	136 X 98
IRFC350D	N	400	16	0.3	10V	9.6A	n/a	n/a	n/a	2.0V	4.0V	150	
IRFC360D	N	400	23	0.2	10V	14A	n/a	n/a	n/a	2.0V	4.0V	210	353 X 245
IRFC420D	N	500	2.5	3.0	10V	1.5A	n/a	n/a	n/a	2.0V	4.0V	24	98 X 136
IRFC430D	N	500	4.5	1.5	10V	2.7A	n/a	n/a	n/a	2.0V	4.0V	38	175 X 115
IRFC440D	N	500	8	0.85	10V	4.8A	n/a	n/a	n/a	2.0V	4.0V	63	227 X 170
IRFC840AD	N	500	8.8	0.85	10V	5.3A	n/a	n/a	n/a	2.0V	4.0V	63	200 X 146
IRFC450D	N	500	14	0.4	10V	8.4A	n/a	n/a	n/a	2.0V	4.0V	150	241 X 250
IRFC460AD	N	500	20	0.27	10V	12A	n/a	n/a	n/a	2.0V	4.0V	210	348 X 245
IRFC23N50LB	N	500	23	0.235	10V	14A	n/a	n/a	n/a	3.0V	5.0V	150	280 X 257
SiHP22N60E	N	650	21	0.18	10V	11A	n/a	n/a	n/a	2.0V	4.0V	11 max	164 X 181

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MOSFET DIE	Channel	V _{DS}	I _D	R _{DS(ON) 1}			R _{DS(ON) 2}			V _{GS(th)}		Q _{G (typ)}	Die Size	
INDUSTRY PN		Volts	Amps	ohms	V _{GS}	I _{D1}	ohms	V _{GS}	I _{D2}	min	max	nC	mils	
Si2305DS	P	-8	-4.1	0.071	-2.5V	-3.0A	0.052	-4.5V	-3.5A	-0.45V	-0.8V	10	68 X 30	
Si1013C	P	-20	-.35	1.2	-4.5V	-0.35A	2.7	-1.8V	-0.15A	-0.45V	n/r	1.5	15 X 18	
Si3457CDV	P	-30	-4.1	0.074	-10V	-4.1A	0.113	-4.5V	-1.0A	-1.0V	-3.0V	5.1	46 x 32	
Si3457BDV	P	-30	-5.0	obsolete, see Si3457CDV or SQ3481EV as recommended replacements										
SQ3481EV	P	-30	-7.5	0.043	-10V	-5.3A	0.07	-4.5V	-2.0A	-1.5V	-2.5V	15.4	60 x 45	
Si4825DY	P	-30	-14.9	0.0125	-10V	-10A	0.0205	-4.5V	-8A	-1.4V	-2.5V	29.5	156 x 98	
Si4483ADY	P	-30	-19.2	0.0088	-10V	-10A	0.0153	-4.5V	-7A	-1.2V	-2.6V	90	119 x 99	
TP0610L	P	-60	-0.185	6	-10V	-500mA	10	-4.5V	-25mA	-1.0V	-3.0V	1.7	25 x 25	
Si1021	P	-60	-0.19	4.0	-10V	-0.5A	8.0	-4.5V	-0.025A	-1.0V	-3.0V	1.7	16 X 16	
Si3459BDV	P	-60	-2.9	0.216	-10V	-2.2A	0.288	-4.5V	-1.9A	-1.0V	-3.0V	4.4	48 x 32	
SUP19P06-60L	P	-60	-19	0.06	-10V	-10A	0.077	-4.5V	-5A	-1.0V	-3.0V	26	74 x 66	
SUM55P06-19L	P	-60	-55	0.019	-10V	-30A	0.025	-4.5V	-20A	-1.0V	-3.0V	76	138 x 97	
IRFC9110D	P	-100	-3.1	1.2	-10V	-1.9A	n/a	n/a	n/a	-2.0V	-4.0V	8.7	90 X 70	
Si7415DN	P	-100	-5.7	0.065	-10V	-5.7A	0.11	-4.5V	-4.4A	-1.0V	-3.0V	15	85 x 58	
IRFC9120D	P	-100	-5.6	0.6	-10V	-3.4A	n/a	n/a	n/a	-2.0V	-4.0V	18	114 X 95	
IRFC9130D	P	-100	-12	0.3	-10V	-7.2A	n/a	n/a	n/a	-2.0V	-4.0V	38	180 X 114	
IRFC9140D	P	-100	-19	0.2	-10V	-11A	n/a	n/a	n/a	-2.0V	-4.0V	61	192 X 170	
IRFC9240D	P	-200	-11	0.2	-10V	-6.6A	n/a	n/a	n/a	-2.0V	-4.0V	44	219 X 161	
IRFC9634GD	P	-250V	-4.1A	1.0	-10V	-2.5A	n/a	n/a	n/a	-2.0V	-4.0V	38	181 X 116	
IRFC9310D	P	-400	-1.8	7.0	-10V	-1.1A	n/a	n/a	n/a	-2.0V	-4.0V	13	113 X 92	

LOGIC LEVEL FETS	Channel	V _{DS}	I _D	R _{DS(ON) 1}			R _{DS(ON) 2}			V _{GS(th)}		Q _{G (typ)}	Die Size
INDUSTRY PN		Volts	Amps	ohms	V _{GS}	I _{D1}	ohms	V _{GS}	I _{D2}	min	max	nC	mils
IRLC044D	LOGIC	60	50	0.028	5.0V	31A	0.039	4.0V	25A	1.0V	2.0V	66	227 X 170
IRLC120D	LOGIC	100	9.2	0.27	5.0V	5.5A	0.38	4.0V	4.6A	1.0V	2.0V	12	115 X 83

DUAL FETS	Channel	V _{DS}	I _D	R _{DS(ON) 1}			R _{DS(ON) 2}			V _{GS(th)}		Q _{G (typ)}	Die Size	
INDUSTRY PN		Volts	Amps	ohms	V _{GS}	I _{D1}	ohms	V _{GS}	I _{D2}	min	max	nC	mils	
Si1016	N/P	20	0.35	Two die required: one each Si1012, one each Si1013, see above for detail										
Si1023	P	-20	0.35	Two die required: two each Si1013, see above for detail.										
Si1025	P	-60	-0.19	Two die required: two each Si1021, see above for detail.										
Si1026	N	60	0.33	Two die required: two each Si1022, see above for detail.										

Known Good Die	Channel	V _{DS}	I _D	R _{DS(ON) 1}			R _{DS(ON) 2}			V _{GS(th)}		Q _{G (typ)}	Die Size
Medical Implant Applications		Volts	Amps	ohms	V _{GS}	I _{D1}	ohms	V _{GS}	I _{D2}	min	max	nC	mils
SMM50N03-4m0LKGD	N	30	50	0.0031	10V	20A	0.004	4.5V	15A	1.5V	2.5V	77	148 x 118
SMM23N06-31LKGD	N	60	30	0.031	10V	15A	0.045	4.5V	10A	1.5V	2.5V	16	93 x 62

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