

Power MOSFETs

N Channel, 150 Volt V_{DS}

Stock No.	Mfr.'s Type	V_{GS} (V)	I_D (A)	Power (W)	$R_{DS(on)}$ (Ω)	R_{TH} (J/C) ($^{\circ}$ C/W)	Gate Drive	Package	EACH
70016952	IRF3315PBF	± 20	21.0	94.0	0.0820	1.60	Standard	T0-220AB	1.75
70016954	IRF3415PBF	± 20	43.0	200.0	0.0420	0.75	Standard	T0-220AB	2.68
70017481	IRF3415SPBF	± 20	43.0	200.0	0.0420	0.75	Standard	D2-PAK	2.60
70017261	IRFB23N15DPBF	± 30	23.0	136.0	0.0900	1.10	Standard	T0-220AB	2.22
70017492	IRFB41N15DPBF	± 20	41.0	200.0	0.0450	0.75	Standard	T0-220AB	1.99
70017500	IRFB52N15DPBF	± 30	51.0	230.0	0.0320	0.47	Standard	T0-220AB	3.23
70017262	IRFB61N15DPBF	± 30	60.0	330.0	0.0320	0.45	Standard	T0-220AB	4.40
70017029	IRFL4315PBF	± 30	2.6	2.8	0.1850	—	Standard	SOT-223	.74
70017537	IRFPS3815PBF	± 30	105.0	441.0	0.0150	0.34	Standard	T0-274AA	5.74
70017463	IRFS52N15DPBF	± 30	51.0	230.0	0.0320	0.47	Standard	D2-PAK	2.71
70017570	IRF3515SPBF	± 30	41.0	200.0	0.0450	0.75	—	D2-PAK	2.01
70017601	IRFP3415PBF	± 20	43.0	200.0	0.0420	0.75	—	T0-247AC	2.65

N Channel, 200 Volt V_{DS}

70017265	IRF630NPF	± 20	9.3	82.0	0.3000	1.83	Standard	T0-220AB	1.45
70016972	IRF640NPF	± 20	18.0	150.0	0.1500	1.00	Standard	T0-220AB	1.76
70017531	IRF640NLPBF	± 20	18.0	150.0	0.1500	1.00	Standard	T0-262	1.29
70016973	IRF640NSPBF	± 20	18.0	150.0	0.1500	1.00	Standard	D2-PAK	1.99
70017030	IRF640NSTRLPBF	± 20	18.0	150.0	0.1500	1.00	Standard	D2-PAK	1.99
70017019	IRFB23N20DPBF	± 30	24.0	170.0	0.1000	0.90	Standard	T0-220AB	3.06
70017423	IRFB260NPF	± 20	56.0	380.0	0.0400	0.40	Standard	T0-220AB	3.60
70017529	IRFB31N20DPBF	± 30	31.0	200.0	0.0820	0.75	Standard	T0-220AB	3.13
70017523	IRFB38N20DPBF	± 30	38.0	230.0	0.0540	0.47	Standard	T0-220AB	3.75
70017535	IRFB42N20DPBF	± 30	44.0	330.0	0.0550	0.45	Standard	T0-220AB	4.12

Unbalanced Dual N Channel

Stock No.	Mfr.'s Type	V_{GS} (V)	I_D (A)		Power (W)		$R_{DS(on)}$ (Ω)		$R_{TH}(JC)$ ($^{\circ}$ C/W)		Gate Drive	Package	EACH
			Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2			
70017284	IRF7904PBF	± 20	7.6	11.0	1.4	2.0	0.0162	0.0108	90.0	62.5	Logic	SO-8	.71
70017285	IRF7905PBF	± 20	7.8	8.9	2.0	2.0	0.0218	0.0171	90.0	62.5	Logic	SO-8	.57
70017286	IRF7907PBF	± 20	9.1	11.0	2.0	2.0	0.0164	0.0118	90.0	62.5	Logic	SO-8	.67
70017014	IRF9910PBF	± 20	10.0	12.0	2.0	2.0	0.0134	0.0093	62.5	62.5	2.7 V Logic	SO-8	.73

Dual N and P Channel

Stock No.	Mfr.'s Type	V_{GS} (V)	V_{DS} (V)		I_D (A)		Power (W)		$R_{DS(on)}$ (Ω)		$R_{TH}(JA)$ ($^{\circ}$ C/W)		Gate Drive	Package	EACH
			N Chan.	P Chan.	N Chan.	P Chan.	N Chan.	P Chan.	N Chan.	P Chan.	N Chan.	P Chan.			
70017000	IRF7509TRPBF	± 20	30	-30	2.7	-2.0	1.25	1.25	0.110	0.200	100.0	100.0	+1.0/-1.0 V	MICRO-8	.30
70017475	IRF7307PBF	± 12	20	-20	5.2	-4.3	2.00	2.00	0.050	0.090	62.5	62.5	4.5 V Logic	SO-8	1.00
70016977	IRF7105PBF	± 20	25	—	3.5	-2.3	2.00	2.00	0.100	0.250	62.5	62.5	—	SO-8	.42
70017872	IRF7105QPBF	± 20	25	-25	3.5	-2.3	2.00	2.00	0.100	0.250	62.5	62.5	—	SO-8	.41
70017698	IRF7341TRPBF	± 20	55	—	4.7	—	2.00	—	0.065	—	62.5	62.5	—	SO-8	.94
70017581	IRF7343PBF	± 20	55	-55	4.7	-3.4	2.00	2.00	0.050	0.105	62.5	62.5	—	SO-8	.92
70017860	IRF7343QPBF	± 20	55	-55	4.7	-3.4	2.00	2.00	0.065	0.017	62.5	62.5	—	SO-8	.54
70017699	IRF7343TRPBF	± 20	55	-55	4.7	-3.4	2.00	2.00	0.065	0.017	62.5	62.5	—	SO-8	.92
70017548	IRF7389PBF	± 20	30	-30	7.3	-5.3	2.50	2.50	0.046	0.098	50.0	50.0	—	SO-8	1.06
70017597	IRF9952PBF	± 20	30	-30	3.5	-2.3	2.00	2.00	0.150	0.400	62.5	62.5	—	SO-8	.69

Insulated Gate Bipolar Transistors — IGBTs

Co-Packs: IGBT with Output Diode

Stock No.	Mfr.'s Type	V_{CES} (V)	I_C @ T_C 100°C (A)	I_C @ T_C 25°C (A)	P_D (W)	Switching Speed	V_{CE} (on)	No. of Leads	Package	EACH
70017063	IRG4BC20UDPBF	600	6.5	13.0	60	Ultrafast 8-60 kHz	2.10	3	T0-220AB	2.80
70017065	IRG4BC30UDPBF	600	12.0	23.0	100	Ultrafast 8-60 kHz	2.10	3	T0-220AB	3.23
70017070	IRG4PC40UDPBF	600	20.0	40.0	160	Ultrafast 8-60 kHz	2.10	3	T0-247AC	5.78
70017077	IRG4PC30UDPBF	600	27.0	55.0	200	Ultrafast 8-60 kHz	2.00	3	T0-247AC	4.04
70017606	IRG4PC30KDPBF	600	12.0	23.0	100	Ultrafast 8-60 kHz	2.10	3	T0-247AC	3.15
70017608	IRG4PH30KDPBF	1200	10.0	20.0	160	Ultrafast 4-20 kHz	4.20	3	T0-247AC	3.29
70017610	IRG4PH40UDPBF	1200	15.0	30.0	160	Ultrafast 5-40 kHz	3.50	3	T0-247AC	6.01
70017558	IRGB20B60PD1PBF	600	22.0	40.0	215	Warp 60-150 kHz	2.35	3	T0-220AB	3.94
70017539	IRGP20B60PDPBF	600	22.0	40.0	220	Warp 60-150 kHz	2.35	3	T0-247AC	4.09
70017549	IRGP35B60PDPBF	600	15.0	40.0	308	Warp 60-150 kHz	2.15	3	T0-247AC	4.87

Discretes

70017536	IRG4BC30PBF	600	17.0	31.0	100	Fast 1-8 kHz	1.80	3	T0-220AB	2.56
70017507	IRG4BC30KDPBF	600	16.0	28.0	100	Ultrafast 8-25 kHz	2.70	3	T0-220AB	3.18
70017064	IRG4BC30UPBF	600	12.0	23.0	100	Ultrafast 8-60 kHz	2.10	3	T0-220AB	2.55
70017484	IRG4BC40UPBF	600	20.0	40.0	160	Ultrafast 8-60 kHz	2.10	3	T0-220AB	2.16
70017554	IRGBH20K-SPBF	1200	5.0	11.0	60	Ultrafast 4-20 kHz	3.17	2	D2-PAK	2.86
70017551	IRG4PC40FDPBF	600	27.0	49.0	160	Fast 1-8 kHz	1.70	3	T0-247AC	3.80
70017546	IRG4PC40PBF	600	27.0	49.0	160	Fast 1-8 kHz	1.70	3	T0-247AC	4.29
70017513	IRG4PC40KDPBF	600	25.0	42.0	160	Ultrafast 8-25 kHz	2.60	3	T0-247AC	3.81
70017068	IRG4PC40SPBF	600	31.0	60.0	160	DC-1 kHz	1.50	3	T0-247AC	4.39
70017069	IRG4PC40UPBF	600	20.0	40.0	160	Ultrafast 8-60 kHz	2.10	3	T0-247AC	4.34
70017074	IRG4PC50KDPBF	600	30.0	52.0	200	Ultrafast 8-25 kHz	2.20	3	T0-247AC	5.25
70017076	IRG4PC50UPBF	600	27.0	55.0	200	Ultrafast 8-60 kHz	2.00	3	T0-247AC	5.04
70017498	IRG4PC50WPBF	900	27.0	55.0	200	WARP 60-150 kHz	2.30	3	T0-247AC	6.26
70017078	IRG4PF50WPBF	900	28.0	51.0	200	Warp 20-100 kHz	2.70	3	T0-247AC	5.86
70017503	IRG4PF50WDPBF	900	28.0	51.0	200	Warp 20-100 kHz	2.70	3	T0-247AC	6.57
70017080	IRG4PH40UPBF	1200	15.0	30.0	160	Ultrafast 5-40 kHz	3.50	3	T0-247AC	4.28
70017542	IRG4PH50KDPBF	1200	24.0	45.0	200	Ultrafast 4-20 kHz	3.50	3	T0-247AC	7.64
70017521	IRG4PH50SPBF	1200	33.0	57.0	200	DC-1 kHz	1.70	3	T0-247AC	6.13
70017081	IRG4PH50UPBF	1200	24.0	45.0	200	Ultrafast 5-40 kHz	3.70	3	T0-247AC	5.40
70017515	IRG4PH50UDPBF	1200	24.0	45.0	200	Ultrafast 5-40 kHz	3.70	3	T0-247AC	7.98
70017552	IRG4PSC71UDPBF	600	60.0	85.0	350	Ultrafast 8-25 kHz	2.30	3	T0-247AA	12.87
70017607	IRG4PH30KDPBF	600	12.0	23.0	100	Ultrafast 8-60 kHz	2.10	3	T0-247AC	2.30
70017609	IRG4PH30UPBF	1200	10.0	20.0	100	Ultrafast 4-20 kHz	4.20	3	T0-247AC	3.42
70017611	IRG4PSC71UPBF	600	60.0	85.0	350	Ultrafast 8-60 kHz	2.00	3	T0-247AC	6.65



TO-220AB



SOT-223



TO-247AC



I-PAK

AUTOMATION
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