


Government/ Space Products

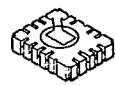
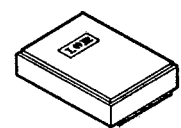


Power MOSFETS High Reliability

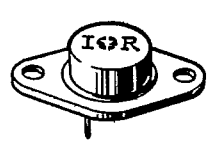
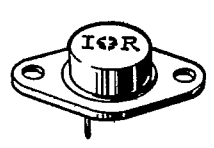
Logic Level — N-Channel

Part Number	V _{DS} Drain Source Voltage (Volts)	R _{DS(on)} On-State Resistance (Ohms)	I _D Continuous Drain Current 25°C Case (Amps)	I _{DM} Pulse Drain Current (Amps)	P _D Max Power Dissipation (Watts)	Case Outline Number (2)	Notes	Case Style
IRLF110 IRLF120 IRLF130	100	0.60 0.35 0.20	3.5 5.3 8	14 21 33	15 20 25	H13		TO-205AF TO-39 

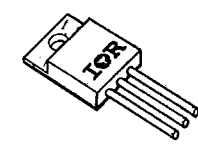
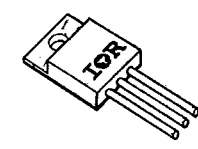
Surface Mount Device — N-Channel

Part Number	V _{DS} Drain Source Voltage (Volts)	R _{DS(on)} On-State Resistance (Ohms)	I _D Continuous Drain Current 25°C Case (Amps)	I _{DM} Pulse Drain Current (Amps)	P _D Max Power Dissipation (Watts)	Case Outline Number (2)	Notes	Case Style
IRFE130	100	0.18	5.0	20	10	H22		LCC 
IRFN054 IRFN150 IRFN250 IRFN350 IRFN450	60 100 200 400 500	0.014 0.055 0.085 0.30 0.42	54 26 20 11 8.6	218 104 80 44 37	75	H21		SMD-1 

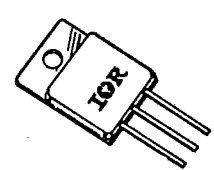
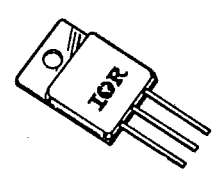
Hermetic Package — N-Channel

Part Number	V _{DS} Drain Source Voltage (Volts)	R _{DS(on)} On-State Resistance (Ohms)	I _D Continuous Drain Current 25°C Case (Amps)	I _{DM} Pulse Drain Current (Amps)	P _D Max Power Dissipation (Watts)	Case Outline Number (2)	Notes	Case Style
IRFJ120 IRFJ130 IRFJ140	100	0.3 0.18 0.085	8 12 15	32 40 60	40 50 70	H16		TO-213AA TO-66 
IRFJ220 IRFJ230 IRFJ240	200	0.8 0.4 0.18	5 8 13	20 32 52	40 50 70	H16		TO-213AA TO-66 
IRFJ320 IRFJ330 IRFJ340	400	1.8 1.0 0.55	3 4.5 7.5	12 18 30	40 50 70			
IRFJ420 IRFJ430 IRFJ440	500	3.0 1.5 0.85	2.5 3.8 6	10 15 24	40 50 70			

Y-PAK — N-Channel

Part Number	V _{DS} Drain Source Voltage (Volts)	R _{DS(on)} On-State Resistance (Ohms)	I _D Continuous Drain Current 25°C Case (Amps)	I _{DM} Pulse Drain Current (Amps)	P _D Max Power Dissipation (Watts)	Case Outline Number (2)	Notes	Case Style
IRFY120(M) IRFY130(M) IRFY140(M) IRFY240(M) IRFY340(M) IRFY430(M) IRFY440(M)	100 100 100 200 400 500 500	0.31 0.19 0.092 0.19 0.55 1.50 0.85	7.4 10.8 18.4 12.4 6.9 3.5 5.5	29.2 43.2 73.6 49.6 27.6 14 22	30 45 60 60 60 45 60	H23		TO-257 Y-PAK 
P-Channel						H23		TO-257 Y-PAK 
IRFY9120(M) IRFY9130(M)	-100	0.60 0.31	-5.3 -9.3	-21.2 -37.2	30 45			

M-PAK — N-Channel

Part Number	V _{DS} Drain Source Voltage (Volts)	R _{DS(on)} On-State Resistance (Ohms)	I _D Continuous Drain Current 25°C Case (Amps)	I _{DM} Pulse Drain Current (Amps)	P _D Max Power Dissipation (Watts)	Case Outline Number (2)	Notes	Case Style
IRFM044 IRFM054 IRFM140 IRFM150 IRFM240 IRFM250 IRFM340 IRFM350 IRFM440 IRFM450	60 60 100 100 200 200 400 400 500 500	0.04 0.022 0.100 0.065 0.200 0.100 0.56 0.31 0.86 0.42	25 25 25 25 18 25 8.5 15 8 13	210 150 110 160 72 100 40 60 32 52	150 150 150 150 125 150 125 150 125 150	H19	(1)	TO-254AA M-PAK 
P-Channel						H19	(1)	TO-254AA M-PAK 
IRFM9130	-100	0.31	-11.5	-48	75			
IRFM9140	-100	0.21	-17.3	-69	125			
IRFM9230 IRFM9240	-200 -200	0.81 0.51	-6.5 -10.7	-26 -43	75 125			

(1) PACKAGES CONTAINING BERYLLIA SHALL NOT BE GROUND, SANDBLASTED, MACHINED, OR HAVE OTHER OPERATIONS PERFORMED ON THEM WHICH WILL PRODUCE BERYLLIA OR BERYLLIUM DUST. FURTHERMORE, BERYLLIUM OXIDE PACKAGES SHALL NOT BE PLACED IN ACIDS THAT WILL PRODUCE FUMES CONTAINING BERYLLIUM.

(2) FOR CASE OUTLINE DRAWING SEE PAGE 136.