

International
IR Rectifier
HEXFET Power MOSFETs
 Plastic Insertable Package

TO-220 N-Channel

| Part Number | V _{GS} 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 |
|-------------|--|--|--|--|--|-------------------------|-------|------------|
| IRF712 | 400 | 5.0 | 1.7 | 4.3 | 36 | H5 | (1) | TO-220AB |
| IRF710 | | 3.6 | 2.0 | 5.0 | 36 | | | |
| IRF722 | | 2.5 | 2.8 | 11 | 50 | | | |
| IRF720 | | 1.8 | 3.3 | 13 | 50 | | | |
| IRF732 | | 1.5 | 4.5 | 16 | 74 | | | |
| IRF730 | | 1.0 | 5.5 | 20 | 74 | | | |
| IRF742 | | 0.80 | 8.3 | 33 | 125 | | | |
| IRF740 | 0.55 | 10 | 40 | 125 | | | | |
| IRF823 | 450 | 4.0 | 2.0 | 7.0 | 50 | H5 | (1) | TO-220AB |
| IRF821 | | 3.0 | 2.5 | 8.0 | 50 | | | |
| IRF833 | | 2.0 | 4.0 | 13 | 74 | | | |
| IRF831 | | 1.5 | 4.5 | 15 | 74 | | | |
| IRF843 | | 1.1 | 7.0 | 28 | 125 | | | |
| IRF841 | 0.85 | 8.0 | 32 | 125 | | | | |
| IRF822 | 500 | 4.0 | 2.0 | 7.0 | 50 | H5 | (1) | TO-220AB |
| IRF820 | | 3.0 | 2.5 | 8.0 | 50 | | | |
| IRF832 | | 2.0 | 4.0 | 13 | 74 | | | |
| IRF830 | | 1.5 | 4.5 | 15 | 74 | | | |
| IRF842 | | 1.1 | 7.0 | 28 | 125 | | | |
| IRF840 | | 0.85 | 8.0 | 32 | 125 | | | |
| IRF8C20 | 600 | 4.4 | 2.2 | 6.8 | 50 | H5 | (1) | TO-220AB |
| IRF8C32 | | 2.7 | 3.2 | 12 | 74 | | | |
| IRF8C30 | | 2.2 | 3.6 | 14 | 74 | | | |
| IRF8C42 | | 1.6 | 5.5 | 22 | 125 | | | |
| IRF8C40 | | 1.2 | 6.2 | 25 | 125 | | | |
| IRFBE22 | 800 | 7.8 | 1.6 | 6.4 | 50 | H5 | (1) | TO-220AB |
| IRFBE20 | | 6.5 | 1.8 | 7.2 | 50 | | | |
| IRFBE32 | | 3.8 | 2.8 | 11 | 74 | | | |
| IRFBE30 | | 3.2 | 3.1 | 12 | 74 | | | |
| IRFBF22 | 900 | 9.6 | 1.5 | 6 | 50 | H5 | (1) | TO-220AB |
| IRFBF20 | | 8.0 | 1.6 | 6.4 | 50 | | | |
| IRFBF32 | | 4.8 | 2.5 | 10 | 74 | | | |
| IRFBF30 | | 4.0 | 2.8 | 11 | 74 | | | |
| IRFBG22 | 1000 | 13.8 | 1.2 | 4.8 | 50 | H5 | (1) | TO-220AB |
| IRFBG20 | | 11.5 | 1.3 | 5.2 | 50 | | | |
| IRFBG32 | | 6.7 | 2.1 | 8.4 | 74 | | | |
| IRFBG30 | | 5.6 | 2.3 | 9.2 | 74 | | | |


TO-220 P-Channel

| | | | | | | | | |
|---------|------|------|------|-----|-----|----|-----|----------|
| IRF9Z12 | -50 | 0.70 | -4.0 | -16 | 20 | H5 | (1) | TO-220AB |
| IRF9Z10 | | 0.50 | -4.7 | -19 | 20 | | | |
| IRF9Z22 | | 0.33 | -8.9 | -36 | 40 | | | |
| IR9FZ20 | | 0.28 | -9.7 | -39 | 40 | | | |
| IRF9Z32 | | 0.21 | -15 | -50 | 74 | | | |
| IRF9Z30 | 0.14 | -18 | -60 | 74 | | | | |
| IRF9Z14 | -60 | 0.50 | -4.7 | -19 | 20 | H5 | (1) | TO-220AB |
| IRF9Z24 | | 0.28 | -9.7 | -39 | 40 | | | |
| IRF9Z34 | | 0.14 | -18 | -72 | 88 | | | |
| IRF9513 | -80 | 1.6 | -2.5 | -10 | 20 | H5 | (1) | TO-220AB |
| IRF9511 | | 1.2 | -3 | -12 | 20 | | | |
| IRF9523 | | 0.80 | -5.9 | -24 | 60 | | | |
| IRF9521 | | 0.60 | -6.8 | -27 | 60 | | | |
| IRF9533 | | 0.40 | -10 | -40 | 88 | | | |
| IRF9531 | | 0.30 | -12 | -48 | 88 | | | |
| IRF9543 | | 0.30 | -16 | -64 | 150 | | | |
| IRF9541 | | 0.20 | -19 | -76 | 150 | | | |



(1) For lead formed options see rear of section (2) For case outline drawing see rear of section