

TO-220 FullPak

The FullPak outline is "overmolded" to provide a built-in isolation barrier from the external heatsink. The molding compound and package design provides a high isolation capability and low thermal impedance between the tab and external heatsink along with excellent creepage and clearance distances to meet safety requirements. Consequently, the FullPak requires no further external isolation barrier saving a significant amount of additional labor and reducing component count and cost.

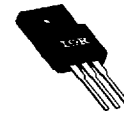
Low charge HEXFETs reduce gate charge by 40% or more and capacitances by up to 85% without any added device cost.

**TO-220 FullPak N-Channel - "Low Charge"**

Part Number	V(BR) <sub>DSS</sub> Drain-to-Source Breakdown Voltage (Volt)	R <sub>DS(on)</sub> On-State Resistance (Ohms)	I <sub>D</sub> Continuous Drain Current 25°C (Amps)	Q <sub>g</sub> Total Gate Charge (nC)	R <sub>thJC</sub> Max Thermal Resistance (°C/W)	P <sub>d</sub> @T <sub>c</sub> = 25°C Max Power Dissipation (Watts)	Case Outline Number (1)	Case Style
IRFI740GLC	400	0.55	6.0	39	3.1	40	H6	TO-220 FullPak
IRFI840GLC	500	0.85	4.8	39	3.1	40		
IRFIBC40GLC	600	1.2	4.0	39	3.1	40		

**TO-220 FullPak N-Channel**

Part Number	V(BR) <sub>DSS</sub> Drain-to-Source Breakdown Voltage (Volt)	R <sub>DS(on)</sub> On-State Resistance (Ohms)	I <sub>D</sub> Continuous Drain Current 25°C (Amps)	I <sub>D</sub> Continuous Drain Current 100°C (Amps)	R <sub>thJC</sub> Max Thermal Resistance (°C/W)	P <sub>d</sub> @T <sub>c</sub> = 25°C Max Power Dissipation (Watts)	Case Outline Number (1)	Case Style
<b>IRFI1010G</b>	55	0.14	43	30	3.0	50	H6	TO-220 FullPak
<b>IRFI214G</b>	60	0.20	8.0	5.7	5.5	27		
<b>IRFI224G</b>	60	0.10	14	10	4.1	37		
<b>IRFI234G</b>	60	0.050	20	14	3.6	38		
<b>IRFI244G</b>	60	0.028	30	21	3.1	48		
<b>IRFI248G</b>	60	0.018	37	26	3.0	50		
<b>IRFI510G</b>	100	0.54	4.5	3.2	5.5	27		
<b>IRFI520G</b>	100	0.27	7.2	5.1	4.1	37		
<b>IRFI530G</b>	100	0.16	9.7	6.9	3.6	39		
<b>IRFI540G</b>	100	0.077	17	12	3.1	48		
<b>IRFI1310G</b>	100	0.040	21	15	3.0	50		
<b>IRFI620G</b>	200	0.80	4.1	2.6	4.1	30		
<b>IRFI630G</b>	200	0.40	5.9	3.7	3.6	32		
<b>IRFI640G</b>	200	0.18	9.8	6.2	3.1	40		
<b>IRFI614G</b>	250	2.0	2.1	1.3	5.5	23		
<b>IRFI624G</b>	250	1.1	3.4	2.2	4.1	30		
<b>IRFI634G</b>	250	0.45	5.6	3.5	3.6	32		
<b>IRFI644G</b>	250	0.28	7.9	5.0	3.1	40		
<b>IRFI720G</b>	400	1.8	2.6	1.7	4.1	30		
<b>IRFI730G</b>	400	1.0	3.7	2.3	3.6	32		
<b>IRFI740G</b>	400	0.55	5.4	3.4	3.1	40		
<b>IRFI734G</b>	450	1.2	3.4	2.1	3.6	35		
<b>IRFI744G</b>	450	0.63	4.9	3.1	3.1	40		
<b>IRFI820G</b>	500	3.0	2.1	1.3	4.1	30		
<b>IRFI830G</b>	500	1.5	3.1	2.0	3.6	32		
<b>IRFI840G</b>	500	0.85	4.6	2.9	3.1	40		
<b>IRFIBC20G</b>	600	4.4	1.7	1.1	4.1	30		
<b>IRFIBC30G</b>	600	2.2	2.5	1.6	3.6	35		
<b>IRFIBC40G</b>	600	1.2	3.5	2.2	3.1	40		
<b>IRFIBE20G</b>	800	6.5	1.4	0.86	4.1	30		
<b>IRFIBE30G</b>	800	3.0	2.1	1.4	3.6	35		
<b>IRFIBF20G</b>	900	8.0	1.2	0.79	4.1	30		
<b>IRFIBF30G</b>	900	3.7	1.9	1.2	3.6	35		



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Part Number in bold indicates new product.  
(1) For case outline drawing see page O-2.