

**International**  
**IOR Rectifier**
**HEXFET** Power MOSFETs  
 Logic Level  
 N-Channel

## Expanded Product Line

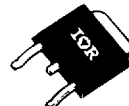
# Logic-Level HEXFETs

International Rectifier has expanded its line of Logic-Level HEXFETs to include the popular HEXDIP (4-pin plastic Dual-In-line) and surface-mountable D-Pak packages, as well as the original, ever-popular TO-220AB outline.

Logic-level HEXFETs feature the same basic characteristics as their well-established standard-gate counterparts — but instead of requiring

a full 10V from gate to source to turn on, logic-level HEXFETs require only 5V to achieve full enhancement. This allows direct interface between power loads and logic-IC level output signals — hence the name "logic-level." This simplification of the gate drive requirement means significant cost savings, design simplification and higher reliability through the elimination of costly excess circuitry.

## Surface Mount D-Pak

| Part Number        | V <sub>DS</sub> Drain Source Voltage (Volts) | R <sub>DS(on)</sub> On-State Resistance (Ohms) | I <sub>D</sub> Continuous Drain Current 25°C Case (Amps) | I <sub>DM</sub> Pulse Drain Current (Amps) | P <sub>D</sub> Max Power Dissipation (Watts) | Case Outline Number (3) | Notes | Case Style                                                                                            |
|--------------------|----------------------------------------------|------------------------------------------------|----------------------------------------------------------|--------------------------------------------|----------------------------------------------|-------------------------|-------|-------------------------------------------------------------------------------------------------------|
| IRLR014<br>IRLR024 | 60                                           | 0.20<br>0.10                                   | 8.5<br>16                                                | 31<br>64                                   | 30<br>50                                     | H1                      | (2)   | TO-252AA<br>D-Pak  |
| IRLR110<br>IRLR120 | 100                                          | 0.54<br>0.27                                   | 4.8<br>8.8                                               | 19<br>35                                   | 30<br>50                                     |                         |       |                                                                                                       |

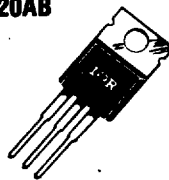
## HEXDIP

| Part Number        | V <sub>DS</sub> Drain Source Voltage (Volts) | R <sub>DS(on)</sub> On-State Resistance (Ohms) | I <sub>D</sub> Continuous Drain Current 25°C Case (Amps) | I <sub>DM</sub> Pulse Drain Current (Amps) | P <sub>D</sub> Max Power Dissipation (Watts) | Case Outline Number (3) | Notes | Case Style                                                                                                        |
|--------------------|----------------------------------------------|------------------------------------------------|----------------------------------------------------------|--------------------------------------------|----------------------------------------------|-------------------------|-------|-------------------------------------------------------------------------------------------------------------------|
| IRLD014<br>IRLD024 | 60                                           | 0.20<br>0.10                                   | 1.7<br>2.5                                               | 14<br>20                                   | 1.3                                          | H4                      |       | HD-1<br>SIMILAR<br>MO-001AN  |
| IRLD110<br>IRLD120 | 100                                          | 0.54<br>0.27                                   | 1.0<br>1.3                                               | 8.0<br>10                                  |                                              |                         |       |                                                                                                                   |

## TO-251 I-Pak

| Part Number        | V <sub>DS</sub> Drain Source Voltage (Volts) | R <sub>DS(on)</sub> On-State Resistance (Ohms) | I <sub>D</sub> Continuous Drain Current 25°C Case (Amps) | I <sub>DM</sub> Pulse Drain Current (Amps) | P <sub>D</sub> Max Power Dissipation (Watts) | Case Outline Number (3) | Notes | Case Style                                                                                              |
|--------------------|----------------------------------------------|------------------------------------------------|----------------------------------------------------------|--------------------------------------------|----------------------------------------------|-------------------------|-------|---------------------------------------------------------------------------------------------------------|
| IRLU014<br>IRLU024 | 60                                           | 0.20<br>0.10                                   | 8.5<br>16                                                | 31<br>64                                   | 30<br>50                                     | H2                      | (2)   | TO-251AA<br>I-Pak  |
| IRLU110<br>IRLU120 | 100                                          | 0.54<br>0.27                                   | 4.8<br>8.8                                               | 19<br>35                                   | 30<br>50                                     |                         |       |                                                                                                         |

## TO-220

| Part Number                          | V <sub>DS</sub> Drain Source Voltage (Volts) | R <sub>DS(on)</sub> On-State Resistance (Ohms) | I <sub>D</sub> Continuous Drain Current 25°C Case (Amps) | I <sub>DM</sub> Pulse Drain Current (Amps) | P <sub>D</sub> Max Power Dissipation (Watts) | Case Outline Number (3) | Notes | Case Style                                                                                     |
|--------------------------------------|----------------------------------------------|------------------------------------------------|----------------------------------------------------------|--------------------------------------------|----------------------------------------------|-------------------------|-------|------------------------------------------------------------------------------------------------|
| IRLZ14<br>IRLZ24<br>IRLZ34<br>IRLZ44 | 60                                           | 0.20<br>0.10<br>0.05<br>0.028                  | 10<br>17<br>30<br>50                                     | 40<br>68<br>120<br>200                     | 43<br>60<br>88<br>150                        | H5                      | (1)   | TO-220AB  |
| IRL510<br>IRL520<br>IRL530<br>IRL540 | 100                                          | 0.54<br>0.27<br>0.16<br>0.077                  | 5.6<br>9.2<br>14<br>28                                   | 16<br>31<br>52<br>110                      | 43<br>60<br>79<br>150                        |                         |       |                                                                                                |

(1) For lead formed options see rear of section

(2) For tape and reel options see rear of section

(3) For case outline drawing see rear of section