

## LFPAK56D – the ultimate dual MOSFET

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We have launched our extended portfolio of automotive power MOSFETs in LFPAK56D. Packing even more into the Power-SO8 footprint, the LFPAK56D fits two MOSFETs into one robust package where performance isn't compromised. Fully AEC-Q101 qualified to 175 °C the latest MOSFET offering broadens the LFPAK56D portfolio to include 9 new devices across a range of voltages. LFPAK56D designers can reduce the footprint size per MOSFET channel by 77% compared to DPAK and 56% compared to LFPAK56.

### Key features

- Wire bond free – Cu clip design
- High ID max rating
- Low package resistance and inductance
- Low thermal resistance
- Footprint compatible with other Power-SO8 packages
- High current transient robustness
- 100% avalanche tested
- Extensive product range

### Target applications

- Engine and transmission controllers
- Braking solenoid and motor drives
- General-purpose automotive switching where space is at a premium

| RDSon [max] @<br>VGS = 10 V<br>(mΩ) | VOLTAGE RANGE |     |     |      |
|-------------------------------------|---------------|-----|-----|------|
|                                     | 30V           | 40V | 60V | 100V |
| 5.1                                 | BUK7K5R1-30E  |     |     |      |
| 5.3                                 | BUK9K5R1-30E  |     |     |      |
| 5.6                                 | BUK7K5R6-30E  |     |     |      |
| 5.8                                 | BUK9K5R6-30E  |     |     |      |
| 5.8                                 | BUK7K6R2-40E  |     |     |      |
| 6                                   | BUK9K6R2-40E  |     |     |      |
| 6.1                                 | BUK9K6R8-40E  |     |     |      |
| 6.8                                 | BUK7K6R8-40E  |     |     |      |
| 8                                   | BUK9K8R7-40E  |     |     |      |
| 8.5                                 | BUK7K8R7-40E  |     |     |      |
| 9.3                                 | BUK7K12-60E   |     |     |      |
| 10                                  | BUK7K13-60E   |     |     |      |
| 10.7                                | BUK9K12-60E   |     |     |      |
| 12.5                                | BUK9K13-60E   |     |     |      |
| 14                                  | BUK7K17-60E   |     |     |      |
| 15.6                                | BUK9K17-60E   |     |     |      |
| 16                                  | BUK9K18-40E   |     |     |      |

|  |                               |
|--|-------------------------------|
| 19   | BUK7K18-40E<br>*****          |
| 24   | BUK9K25-40E<br>*****          |
| 24.5   | <b>BUK7K29-100E</b><br>*****  |
| 25   | BUK7K25-40E<br>*****          |
| 27   | BUK9K29-100E<br>*****         |
| 27.5   | <b>BUK7K32-100E</b><br>*****  |
| 30   | BUK7K35-60E<br>*****          |
| 31   | BUK9K32-100E<br>*****         |
| 32   | BUK9K35-60E<br>*****          |
| 37.6   | <b>BUK7K45-100E</b><br>*****  |
| 42   | BUK9K45-100E<br>*****         |
| 45   | BUK7K52-60E<br>*****          |
| 49   | BUK9K52-60E<br>*****          |
| 82.5   | <b>BUK7K89-100E</b><br>*****  |
| 85   | BUK9K89-100E<br>*****         |
| 121  | <b>BUK7K134-100E</b><br>***** |
| 154  | BUK9K134-100E<br>*****        |
| Type numbers in <b>BOLD GREEN</b> represent new products |                               |