

LFPAK P-Channel MOSFET

This program includes a series of P-channel MOSFETs in the popular LFPAK56 package

Design benefits

- For high side drive no charge pump required
- Simple interface drive circuit
- Proven package technology LFPAK56 (SOT669)
- 100% footprint compatible to Power-SO8
- Superior reliability and quality

Key technical features & portfolio

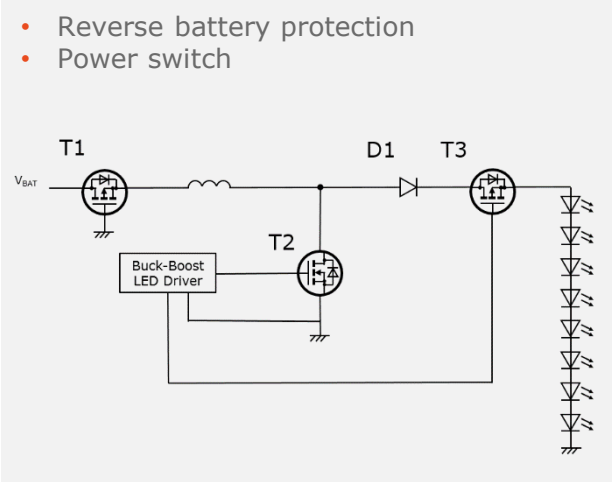
- Suitable for high temperature application - 175 °C T_j max
- Automotive quality grade AEC-Q101
- Low R_{DS(on)} version available
- Portfolio expansion planned

Part number	V _{DS} (V)	V _{GS} (V)	R _{DS(on)} max (mΩ) @ V _{GS} [max] = 10 V	I _D [max] @ 25 °C (A)	R _{th(j-mb)} [max] (K/W)
BUK6Y19-30P	30	20	19	45	2.3
BUK6Y14-40P	40	20	15	64	1.4
BUK6Y33-60P	60	20	33	38	1.4
BUK6Y61-60P	60	20	61	22	2.3
BUK6Y10-30P	30	20	10	80	1.4
BUK6Y24-40P	40	20	24	39	2.3

Functions & applications

- Reverse battery protection
- Load switch: high-side switch in low frequency, EMC sensitive applications
- Buck converter for low power non-isolated point of loads

Application diagram



Available packages (W x L x H in mm)



Discovery questions

- Is EMC a concern in your application? (advantage of P- over N-channel MOSFET)
- What voltage does the system operate at? (determine MOSFET voltage)
- What is the ambient temperature of your application? (is 175 °C T_j max a plus)