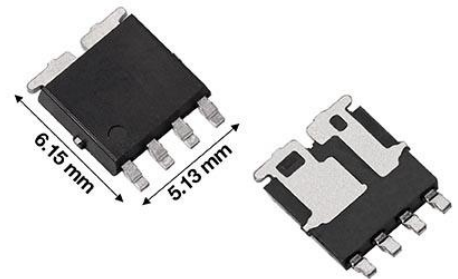




New SQJ264EP 60 V AEC-Q101 Qualified MOSFET Is Industry's First in the 5 mm by 6 mm PowerPAK® SO-8L Dual Asymmetric Package, Saving Space and Increasing Efficiency in Switch-Mode Power Supplies for Automotive Applications

Product Benefits:

- AEC-Q101 qualified
- Combines high and low side MOSFETs in a compact 5 mm by 6 mm PowerPAK® SO-8L dual asymmetric package
- The two MOSFET devices have maximum $R_{DS(ON)}$ of 20 m Ω and 8.6 m Ω
- High temperature operation to +175 °C provides ruggedness and reliability
- Gullwing leads increase board-level reliability
- RoHS-compliant and halogen-free
- 100 % Rg- and UIS-tested



[View PowerPAK® SO-8L dual asymmetric package drawing](#)

Market Applications:

- DC/DC switch-mode power supplies for automotive applications such as infotainment systems, displays, and LED lighting, as well as power conversions in e-bikes

Buy It Now:

[Check distributor stock on the Vishay website](#)

The News:

Vishay Intertechnology introduces an AEC-Q101 qualified n-channel 60 V MOSFET that is the industry's first such device in the PowerPAK SO-8L dual asymmetric package. The new Vishay Siliconix SQJ264EP is designed to meet the need for space savings and increased efficiency in DC/DC switch-mode power supplies for automotive applications with duty cycles below 50 %.

- By co-packaging two TrenchFET® MOSFETs in an asymmetric package, the Automotive Grade device reduces component counts and board space requirements, while increasing power density compared to single-MOSFET solutions
- The device's optimized die size for control (high side) and synchronous (low side) MOSFETs provides higher efficiency than conventional dual devices
- SQJ264EP offers designers the flexibility to configure the transistors to different topologies, including synchronous buck or synchronous boost DC/DC converters
- Gullwing leads allow for better solder flow beneath its pins, increased automatic optical inspection (AOI) capabilities, and higher board-level reliability compared to flat-leaded QFN single and dual packages



The Key Specifications:

Channel	1	2
V_{DS} (V)	60	60
$R_{DS(ON)}$ (m Ω) at $V_{GS} = 10$ V	20	8.6
Typ. Q_g (nC)	9.2	19.2
Configuration	Dual	
Package	PowerPAK SO-8L asymmetric	

Availability:

Samples and production quantities of the SQJ264EP are available now, with lead times of 12 weeks for large orders.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?77239> (SQJ264EP)

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