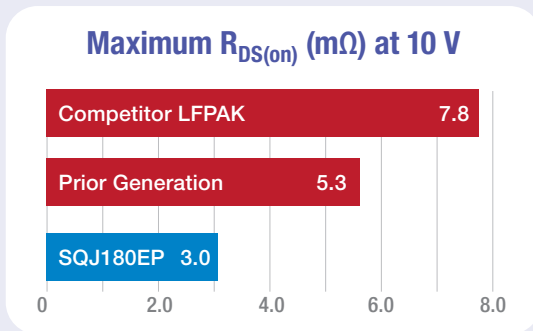




SQJ180EP 80 V Automotive MOSFET

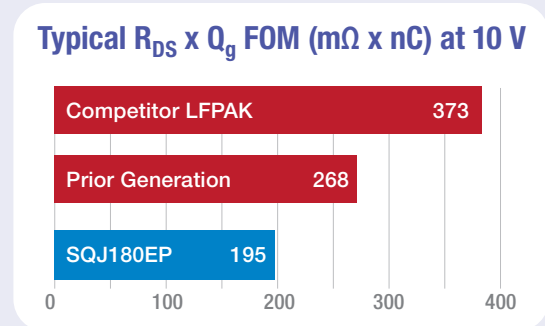
3 mΩ in PowerPAK® SO-8L With Secure-Mounting Gull-Wing Leads

42 % LOWER $R_{DS(on)}$ THAN THE PRIOR GEN 80 V, N-CHANNEL DEVICE IN SIMILAR FOOTPRINT WITH SECURE-MOUNTING GULL-WING LEADS



BETTER SWITCHING EFFICIENCY FOR AUTOMOTIVE

- Optimized $R_{DS} \times Q_g$ FOM reduces loss from gate driving and increases efficiency
- 27 % improvement over prior generation SQJA78EP



BETTER BOARD-LEVEL RELIABILITY AND MORE POWER DENSITY

- Gull-wing leads improve resilience for mechanical stress and TCE mismatch
- Rugged, reliable, and reduces up to 80 % PCB real estate for MOSFET from D²PAK
- Passed all these BLR tests:



BENDING TEST



VIBRATION TEST



RAPID THERMAL CYCLE TEST



POWERED TEMP CYCLE TEST

FOR 48 V, 24 V, AND 12 V AUTOMOTIVE APPLICATIONS

