



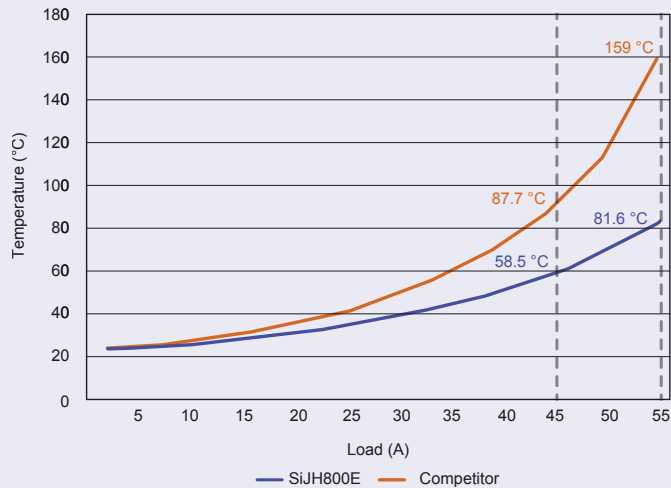
PowerPAK® 8 x 8L MOSFET for Industrial Applications

Ultra Low $R_{DS(on)}$ Down to 0.92 mΩ

KEY FEATURES

- 40 V to 100 V devices with low on-resistance
- High I_D current capability
- Robust UIS capability
- Lowest thermal impedance to 0.45 °C/W
- Gull-wing lead set as PowerPAK, reliable solder joint

PowerPAK 8 x 8L VS. TOLL THERMAL CURVES



Part Number	SiJH800E	Competitor
Package	PowerPAK 8 x 8L	TOLL
Dimensions (mm)	8.0 x 7.9 x 1.7	10.1 x 11.88 x 2.4
$R_{DS(on)}$ (typ.)	1.22 mΩ	2.5 mΩ
$R_{DS(on)}$ (max.)	1.55 mΩ	3.0 mΩ
R_{thJC} (°C/W)	0.45	0.9

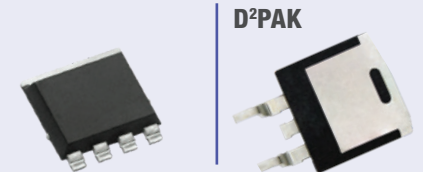


COMPARISON WITH TOLL PACKAGE



SPACE SAVING - 54 %
THICKNESS SAVING - 30 %

COMPARISON WITH D²PAK



SPACE SAVING - 60 %
THICKNESS SAVING - 57 %

COMPARISON WITH PowerPAK SO-8 X 2



ROBUST DESIGN, COMPONENT COUNT REDUCTION

APPLICATIONS

- Hot swap / OR-ing
- Battery management
- Motor drive control
- Circuit protection
- Power supplies
- Synchronous rectification



BATTERY PACKS



DRONES



E-SCOOTERS



SOLAR



TELECOM



POWER TOOLS