600 V PowerPAK® 8 x 8LR + Gen 4 Superjunction MOSFETs

Top-Side Cooling Package for Under 3 kW Power Supply Solutions

KEY FEATURES

- Low profile, dimensions: 7.9 mm x 10.2 mm x 1.6 mm
- Top-side cooling
- Kelvin source connection
- Extremely low R_{thjc}, 0.25 °C/W
- Industry lowest $R_{DS(on)}$ x Q_g FOM
- Excellent temperature cycle capability, passed 1000 cycles



Parameter	D²PAK	PowerPAK 8 x 8LR
Height (mm)	4.45	1.6
Footprint (mm²)	169.4	80.6
R_{thjc} (°C/W)	0.55	0.25
I_0 current (A)	35	51

	$R_{DS(on)}$ (max.)	Q_g (typ.)	Q_{gd} (typ.)	Q_{gs} (typ.)
SiHR080N60E	84 mΩ	42 nC	10 nC	19 nC
SiHB080N60E	80 mΩ	42 nC	10 nC	19 nC

TOP-SIDE COOLING POWERPAK 8 x 8LR VS. BOTTOM-SIDE COOLING D²PAK

- Only 36 % of the height of D²PAK
- Saves 52.4 % of space
- 2.25 times better thermal capability
- 45 % better ID current capability
- Enables higher power rating and power density

APPLICATIONS

SOLAR / PV INVERTER

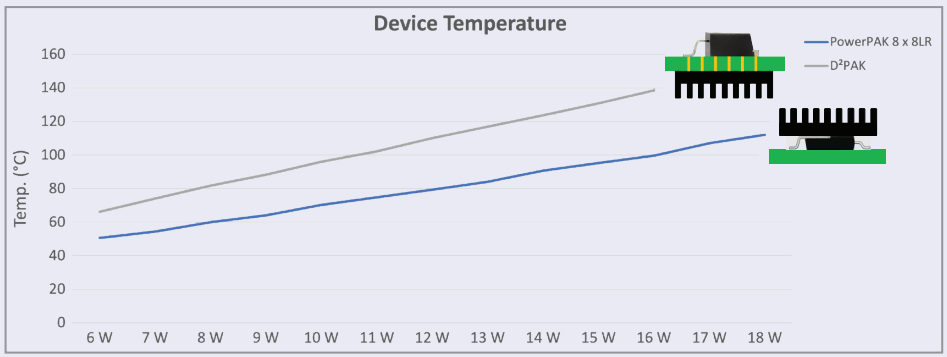
MOTION CONTROL

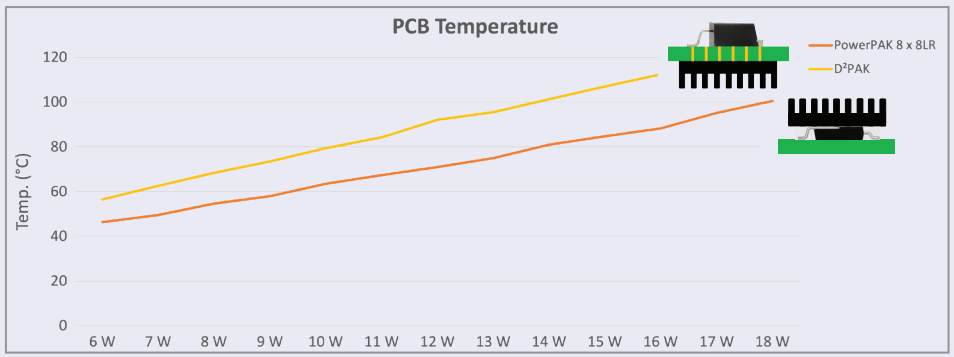
SERVERS / DATACENTERS

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