



The DNA of tech.®

Siliconix SiEH4800EW

80 V TrenchFET® Gen IV Power MOSFET Package: PowerPAK® 8 x 8SW (Bond Wireless)



ADVANTAGES

- Lower conduction losses → higher system efficiency
- Improved thermal performance → cooler operation under load
- Space-saving design → smaller, lighter boards
- Robust solderability and long term reliability
- Optimized for high current industrial environments

KEY PRODUCT FEATURES

- ✓ Best in class on-resistance: down to 0.88 mΩ typ. at 10 V
- ✓ Thermal performance: $R_{thJC} = 0.36 \text{ }^\circ\text{C/W}$ (18 % lower vs. competition)
- ✓ High current capability: up to 608 A
- ✓ Compact footprint: 8 x 8 mm, 1.0 mm ultra low profile (50 % PCB space saving vs. TO-263)
- ✓ Fused lead design: 4x larger solder pad area for reduced electromigration risk
- ✓ Enhanced reliability: wettable flanks for easy solder joint inspection
- ✓ RoHS-compliant, halogen-free, 100 % R_G and UIS tested



MARKETS



AUTOMOTIVE

- Motor drive controls
- Battery management systems (BMS)
- Synchronous rectification and OR-ing



INDUSTRIAL

- Power tools and welding equipment
- Plasma cutting machines
- Robotics and 3D printers

DESIGN WINS

- Strong candidate for industrial and high current applications
- Competitive advantage with lowest $R_{DS(on)}$ and highest current capability in class

LEAD TIME

- 13 weeks ARO (samples and production quantities available now)

Supplier	Part Number	Quantity	Screen Pricing
Vishay	SiEH4800EW	3000	\$2.50
Onsemi	NTMTS1D2N08H	3000	\$2.76
Nexperia	PSMN1R3-80SSF	3000	\$2.64

RESOURCES



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