

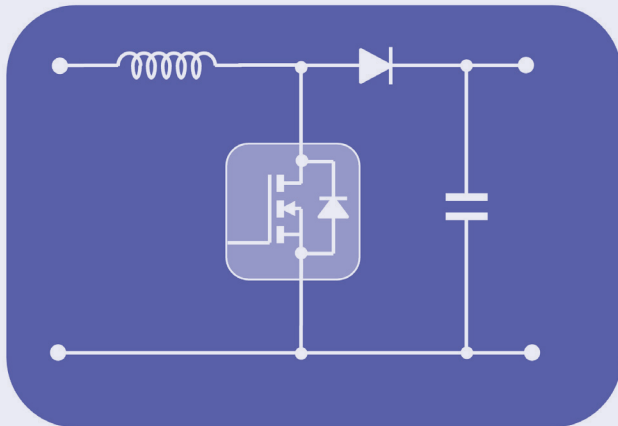


Gen 4 600 V Superjunction MOSFETs + PowerPAK® 8 x 8 Fuse Lead Up to 3 kW+ Power Supply Solutions

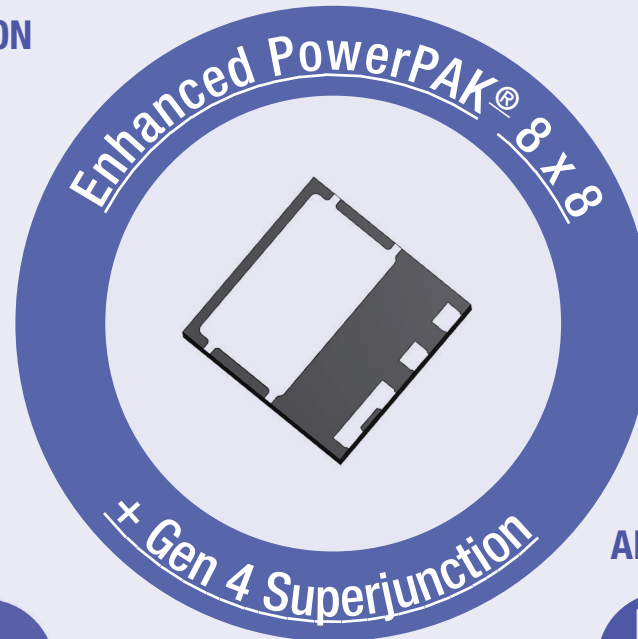
LATEST GEN 4 600 V SUPERJUNCTION TECHNOLOGY

- Industry's lowest $R_{DS(on)} * Q_g$ FOM
- Boosts system efficiency
- Enables higher power ratings and power density
- High I_D current capability
- Reduced switching losses and efficiency enhancement

PFC CIRCUIT DIAGRAM



Gen 4 600 V superjunction MOSFET in a PowerPAK® 8 x 8 Fuse Lead package for a PFC circuit, with optimized Q_g and E_{oss} to boost efficiency.



GREAT THERMAL CAPABILITY OF POWERPAK® 8 X 8 FUSE LEAD PACKAGE

- 8 mm by 8 mm with low 1 mm profile
- Integrated Kelvin source connection
- Fast switching with noise immunity
- D-S overshoot voltage improvement
- Enhanced PowerPAK® 8 x 8
- Enables increased current density

APPLICATIONS



SERVERS



TELECOM



GAMING
PCs



LED LIGHTING



SOLAR / PV
INVERTERS

Part Numbers	V_{DS}	V_{GS}	$R_{DS(on)}$ (Ω) Max.	Q_g (nC) Typ.	I_D (A)
	(V)	(V)	$V_{GS} = 10\text{ V}$	$V_{GS} = 10\text{ V}$	$T_C = 25\text{ }^\circ\text{C}$
SiHH120N60E-FE3	600	± 30	0.12	29	24
SiHH180N60E-FE3	600	± 30	0.18	22	19
SiHH240N60E-FE3	600	± 30	0.24	15	12