

On-Board Charger Solutions

High Efficiency & High Power Density SiC Diode



Electric vehicles require highly-efficient, high-power-density on-board chargers designed to fit into a limited space, while meeting lower weight requirements. PANJIT provides high performance automotive grade SiC diode products for achieving highly efficient On-Board Charger systems.

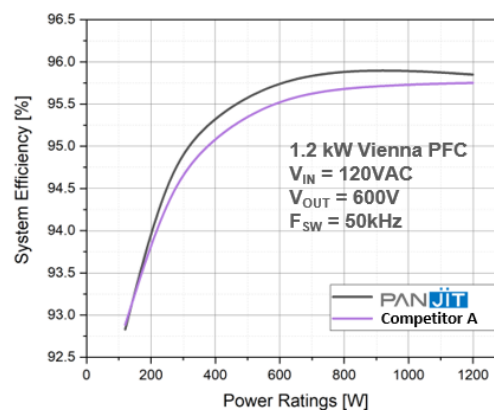
► On-Board Charger Block Diagram



► SiC Diode Product Features

- AEC-Q101 qualified
- Zero reverse recovery
- Temperature independent switching
- Low conduction loss
- High surge current capability
- High junction temperature 175°C

SiC Diode 1200V / 10A Test Result



► Recommended Products

Series	Package	Grade	BV (V)	Product Number	I _F (A)	V _F Typ. (V)	Q _C Typ. (nC)
SiC Diode Gen.1	 TO-247AD-3LD	AEC-Q101 Qualified	650	PCDH2065CCG1-AU	20	1.5	24
				PCDH3065CCG1-AU	30	1.5	38
				PCDH4065CCG1-AU	40	1.5	47
			1200	PCDH20120CCG1-AU	20	1.5	48
				PCDH30120CCG1-AU	30	1.5	72
				PCDH40120CCG1-AU	40	1.5	90



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