

Solutions for On-Board Charger

Hybrid and Electric vehicles need highly-efficient On-Board Charger, which should meet the requirements of high power density to fit into limited space and weight. PANJIT provides high efficiency automotive grade power device solutions for On-Board Charger application.



Product Features

Bridge Diode

- Ultra-low conduction losses
- High forward surge current

SiC Diode

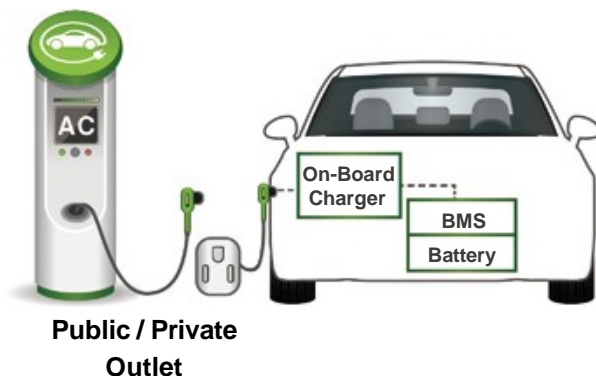
- High-Speed switching
- High surge current capability

TVS Diode

- Low clamping voltage
- High surge current capability

FRED

- Best trade-off on VF & QRR
- Soft recovery characteristic



On-board Charger Module Block Diagram



Recommended Devices

Circuit	Product Type	Product ID	V _{RRM}	Rating	Package
PFC	SiC Diode	PCDP2065G1-AU*	650V	20A	TO-220AC
		PCDB20120G1-AU*	1200V	20A	TO-263
	TVS Diode	P2ALxxA-AU	12-15V	200W	SOD-123FL
DC / DC Converter	FRED	PSDH3060S2-AU*	600V	30A	TO-247AD-2LD
		PSDH6060S2-AU*	600V	60A	

*Under Development