

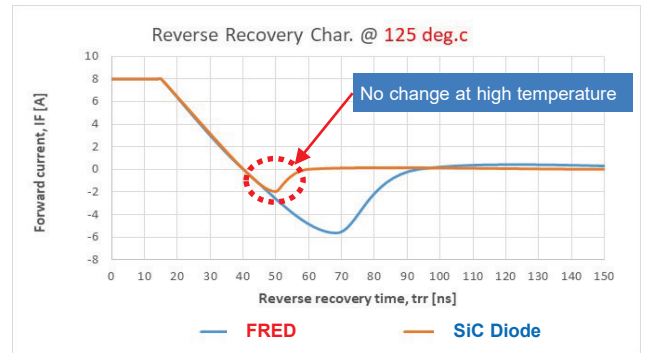
1200V & 650V SiC Diode

Gen 1.5 SiC Diode for the Excellence in Power System Design



► Features

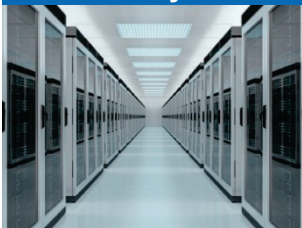
- Zero Reverse Recovery
- Temperature independent switching
- Enhanced surge current capability
- High junction temperature 175°C
- 2 product series for broader choices



| Circuit | SiC Diode Device Power Rating | Package |
|-----------------|---|--|
| Boost PFC | <ul style="list-style-type: none"> • 650V / 4A -40A • 1200V / 5A -40A | <ul style="list-style-type: none"> • TO-220AC • TO-252AA • TO-247AD-3LD |
| Boost Converter | | |
| Bridgeless PFC | | |
| Vienna PFC | | |

► Target Applications

Power System



- Server Power
- Telecom Power
- PC Power

Green Energy



- PV Inverter
- ESS / BMS

Industrial



- EV Charging Pile
- UPS
- Industrial Motor

Consumer

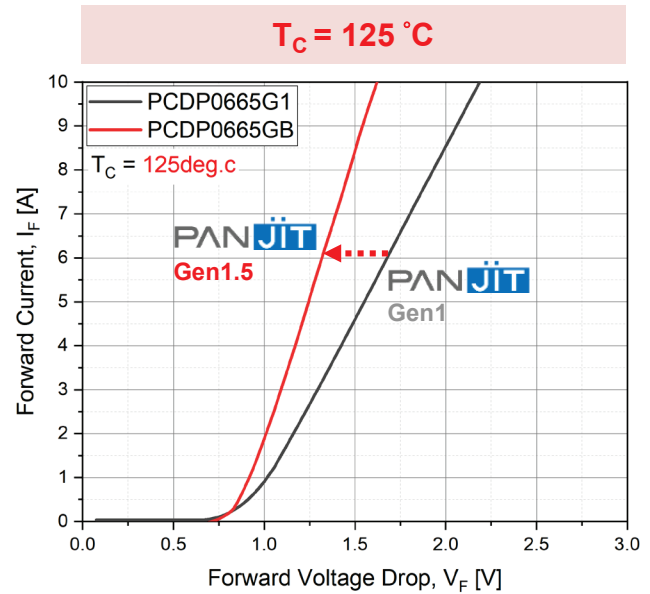
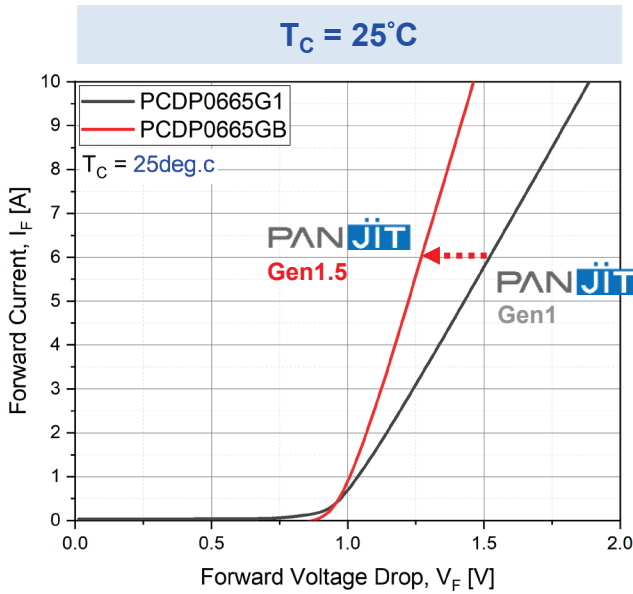


- Home Appliance
- Digital TV






► Performance

SiC Diode Gen1.5 Low V_F series (650V / 6A)



► Products

| Series | BV (V) | I_F (A) | V_F Typ. (V) |  TO-220AC |  TO-252AA |  TO-247AD-3LD |
|---|--------|-----------|----------------|--|---|--|
| Gen 1.5 Low V_F Series: Low Conduction Loss | | | | | | |
| Gen 1.5 Low V_F | 650 | 4 | 1.3 | PCDP0465GB | PCDD0465GB | |
| | | 6 | 1.3 | PCDP0665GB | PCDD0665GB | |
| | | 8 | 1.3 | PCDP0865GB | PCDD0865GB | |
| | | 10 | 1.3 | PCDP1065GB | PCDD1065GB | |
| | | 12 | 1.3 | PCDP1265GB | | |
| | | 16 | 1.3 | PCDP1665GB | | |
| | | 20 | 1.3 | PCDP2065GB | | PCDH2065CCGB |
| | | 30 | 1.3 | | | PCDH3065CCGB |
| | 40 | 1.3 | | | PCDH4065CCGB | |
| | 1200 | 20 | 1.4 | | | PCDH20120CCGB |
| | 30 | 1.4 | | | PCDH30120CCGB | |
| | 40 | 1.4 | | | PCDH40120CCGB | |
| Gen 1.5 Low Q_C Series: Low Switching Loss | | | | | | |
| Gen 1.5 Low Q_C | 650 | 8 | 1.5 | PCDP0865GC | | |
| | | 10 | 1.5 | PCDP1065GC | | |
| | | 12 | 1.5 | PCDP1265GC | | |
| | | 16 | 1.5 | PCDP1665GC | | |
| | | 20 | 1.5 | PCDP2065GC | | PCDH2065CCGC |
| | | 30 | 1.5 | | | PCDH3065CCGC |
| | | 40 | 1.5 | | | PCDH4065CCGC |