

IGBT

High speed 5 FAST IGBT in TRENCHSTOP™ 5 technology copacked with RAPID 1 fast and soft antiparallel diode

IKP08N65F5

650V DuoPack IGBT and Diode
High speed switching series fifth generation

Data sheet

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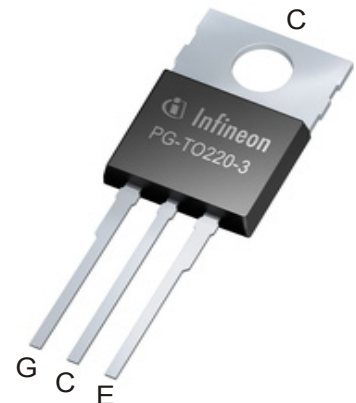
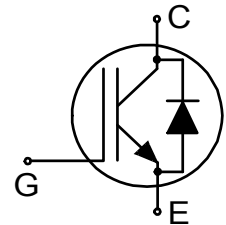
Features and Benefits:

High speed F5 technology offering

- Best-in-Class efficiency in hard switching and resonant topologies
- 650V breakdown voltage
- Low Q_G
- IGBT copacked with RAPID 1 fast and soft antiparallel diode
- Maximum junction temperature 175°C
- Qualified according to JEDEC for target applications
- Pb-free lead plating; RoHS compliant
- Complete product spectrum and PSpice Models:
<http://www.infineon.com/igbt/>

Applications:

- Solar converters
- Uninterruptible power supplies
- Welding converters
- Mid to high range switching frequency converters



Key Performance and Package Parameters

| Type | V_{CE} | I_C | $V_{CEsat}, T_{vj}=25^\circ C$ | T_{vjmax} | Marking | Package |
|------------|----------|-------|--------------------------------|-------------|---------|------------|
| IKP08N65F5 | 650V | 8A | 1.6V | 175°C | K08EEF5 | PG-TO220-3 |