

IGBT

High speed 5 FAST IGBT in TRENCHSTOP™ 5 technology

IGP30N65F5

650V IGBT high speed switching series fifth generation

Data sheet

Industrial Power Control

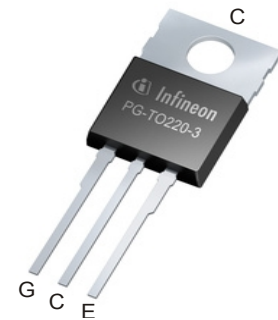
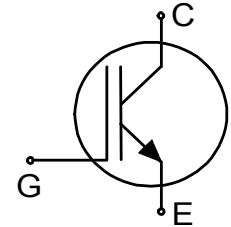
High speed 5 FAST IGBT in TRENCHSTOP™ 5 technology

Features and Benefits:

- High speed F5 technology offering
- Best-in-Class efficiency in hard switching and resonant topologies
 - 650V breakdown voltage
 - Low gate charge Q_G
 - Ideal fit with SiC Schottky Diode in boost converters
 - 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/>

Target 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 |
|------------|----------|-------|---------------------------------|-------------|---------|------------|
| IGP30N65F5 | 650V | 30A | 1.6V | 175°C | G30EF5 | PG-TO220-3 |