

## IGBT

High speed 5 FAST IGBT in TRENCHSTOP™ 5 technology

## IGP40N65F5, IGW40N65F5

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

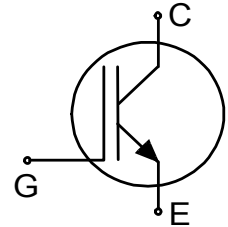
- Best-in-Class efficiency in hard switching and resonant topologies
- 650V breakdown voltage
- Low gate charge  $Q_G$
- Ideal fit with SiC Schottky Diode in boost converters
- Maximum junction temperature 175°C
- Qualified according to JEDEC for target applications
- Pb-free lead plating; RoHS compliant
- 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

#### Package pin definition:

- Pin 1 - gate
- Pin 2 & backside - collector
- Pin 3 - emitter



#### Key Performance and Package Parameters

Type	$V_{CE}$	$I_C$	$V_{CEsat}, T_{vj}=25^\circ C$	$T_{vjmax}$	Marking	Package
IGP40N65F5	650V	40A	1.6V	175°C	G40EF5	PG-TO220-3
IGW40N65F5	650V	40A	1.6V	175°C	G40EF5	PG-TO247-3