

## IGBT

High speed 5 FAST IGBT in TRENCHSTOP™ 5 technology

## IGW50N65F5

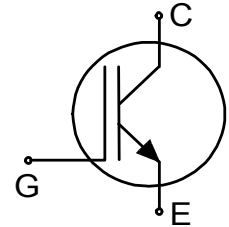
650V IGBT high speed switching series fifth generation

Data sheet

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  $Q_G$
  - 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/>

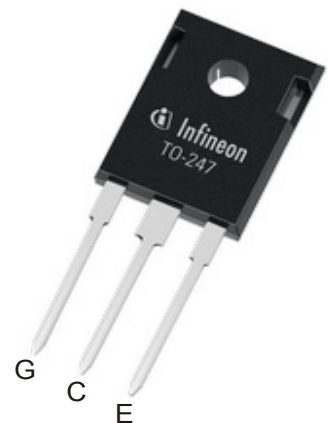


**Applications:**

- 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
IGW50N65F5	650V	50A	1.6V	175°C	G50EF5	PG-TO247-3