

## IGBT

High speed 5 IGBT in TRENCHSTOP™ 5 technology

## IGZ50N65H5

650V IGBT high speed series fifth generation

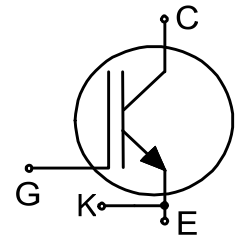
Data sheet

### High speed 5 IGBT in TRENCHSTOP™ 5 technology

#### Features and Benefits:

High speed H5 technology offering

- Ultra low loss switching thanks to Kelvin emitter pin in combination with TRENCHSTOP™ 5
- Best-in-class efficiency in hard switching and resonant topologies
- Plug and play replacement of previous generation IGBTs
- 650V breakdown voltage
- Low gate charge  $Q_G$
- 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

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

#### Package pin definition:

- Pin C & backside - collector
- Pin E - emitter
- Pin K - Kelvin emitter
- Pin G - gate

Please note: The emitter and Kelvin emitter pins are not exchangeable. Their exchange might lead to malfunction.



#### Key Performance and Package Parameters

Type	$V_{CE}$	$I_C$	$V_{CEsat}, T_{vj}=25^\circ C$	$T_{vjmax}$	Marking	Package
IGZ50N65H5	650V	50A	1.65V	175°C	G50EH5	PG-TO247-4