

## IGBT

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

## IKZ75N65EH5

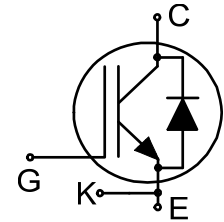
650V DuoPack IGBT and diode  
High speed series fifth generation

Data sheet

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**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  $Q_G$
  - 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**

- 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    |
|-------------|----------|-------|---------------------------------|-------------|---------|------------|
| IKZ75N65EH5 | 650V     | 75A   | 1.65V                           | 175°C       | K75EEH5 | PG-TO247-4 |