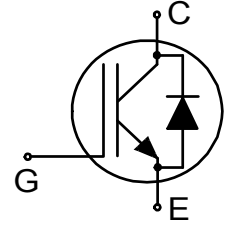


## TRENCHSTOP™ 5 Advanced Isolation

High speed 5 IGBT in TRENCHSTOP™ 5 technology copacked with full current rated RAPID 1 fast and soft antiparallel diode in fully isolated package

### Features and Benefits:

- TRENCHSTOP™ 5 technology offering
- Best-in-Class efficiency in hard switching and resonant topologies
  - Plug and play replacement of previous generation IGBTs
  - 650V breakdown voltage
  - Low gate charge  $Q_G$
  - Very soft, fast recovery antiparallel diode
  - Maximum junction temperature 175°C
  - 2500V<sub>RMS</sub> electrical isolation, 50/60Hz, t=1min
  - 100% tested isolated mounting surface
  - Pb-free lead plating; RoHS compliant
  - Complete product spectrum and PSpice Models:  
<http://www.infineon.com/igbt/>



Fully isolated package TO-247

### Potential Applications:

- Residential and Commercial Aircon PFC
- Welding converters
- Mid to high range switching frequency converters

### Product Validation:

Qualified for industrial applications according to the relevant tests of JEDEC47/20/22



### Key Performance and Package Parameters

Type	$V_{CE}$	$I_C$	$V_{CEsat}, T_{vj}=25^{\circ}C$	$T_{vjmax}$	Marking	Package
IKFW50N65EH5	650V	40A	1.65V	175°C	K50EEH5	PG-HSIP247-3-2

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