

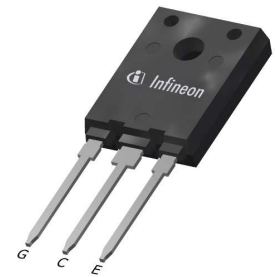
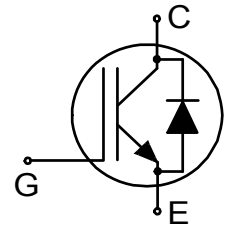
## TRENCHSTOP™ 5 Advanced Isolation

High speed 5 IGBT in TRENCHSTOP™ 5 technology copacked with 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,  $t=1\text{min}$
- 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	$V_{CE}$	$I_C$	$V_{CEsat}, T_{vj}=25^\circ\text{C}$	$T_{vjmax}$	Marking	Package
IKFW50N65DH5	650V	50A	1.8V	175°C	K50EDH5	PG-HSIP247-3-2

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