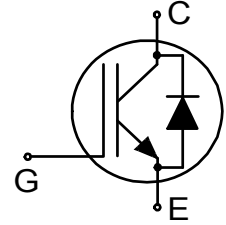


## TRENCHSTOP™ 5 Advanced Isolation

TRENCHSTOP™ 5 high speed soft switching IGBT copacked with full current rated RAPID 1 fast and soft antiparallel diode

### Features and Benefits:

- High speed S5 technology offering
- High speed smooth switching device for hard & soft switching
- Very Low  $V_{CEsat}$ , 1.35V at nominal current
- Plug and play replacement of previous generation IGBTs
- 650V breakdown voltage
- Low gate charge  $Q_G$
- IGBT copacked with full rated RAPID 1 fast antiparallel diode
- Maximum junction temperature 175°C
- Pb-free lead plating; RoHS compliant
- Complete product spectrum and PSpice Models:  
<http://www.infineon.com/igbt/>



Fully isolated package TO-247

### Applications:

- Resonant converters
- Uninterruptible power supplies
- Welding converters
- Mid to high range switching frequency converters

### Product Validation:

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

### Package pin definition:

- Pin 1 - gate
- Pin 2 & backside - collector
- Pin 3 - emitter



### Key Performance and Package Parameters

Type	$V_{CE}$	$I_C$	$V_{CEsat}$ , $T_{vj}=25^\circ\text{C}$	$T_{vjmax}$	Marking	Package
IKFW50N65ES5	650V	40A	1.35V	175°C	K50EES5	PG-HSIP247-3-2

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