

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/>

Applications:

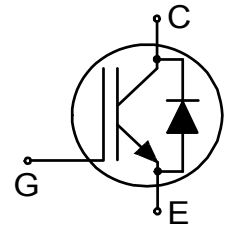
- Resonant converters
- Uninterruptible power supplies
- Welding converters
- Mid to high range switching frequency converters

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



Fully isolated package TO-247

**Key Performance and Package Parameters**

| Type | V_{CE} | I_C | V_{CEsat} , $T_{vj}=25^\circ\text{C}$ | T_{vjmax} | Marking | Package |
|--------------|----------|-------|---|-------------|---------|----------------|
| IKFW60N65ES5 | 650V | 50A | 1.35V | 175°C | K60EES5 | PG-HSIP247-3-2 |

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