

TRENCHSTOP™ 5 Advanced Isolation

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

Features and Benefits:

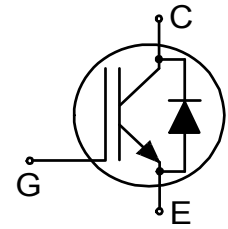
- High speed S5 technology offering
- High speed smooth switching device for hard & soft switching
 - Very Low V_{CEsat} , 1.35V at nominal current
 - Plug and play replacement of previous generation IGBTs
 - 650V breakdown voltage
 - Low gate charge Q_G
 - IGBT copacked with full rated RAPID 1 fast 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



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
IKFW40N65ES5	650V	30A	1.35V	175°C	K40EES5	PG-HSIP247-3-2

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