

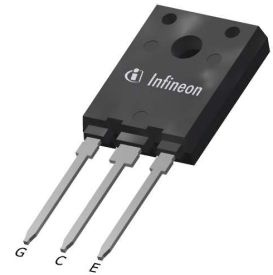
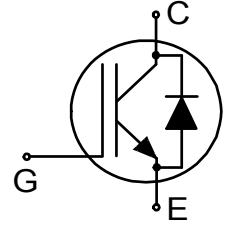
TRENCHSTOP™ 5 Advanced Isolation

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

Features and Benefits:

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_{RMS} 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:

- Uninterruptible power supplies
- Welding converters
- Mid to high range switching frequency converters
- Resonant 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
IKFW90N65ES5	650V	75A	1.42V	175°C	K90EES5	PG-HSIP247-3-2

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