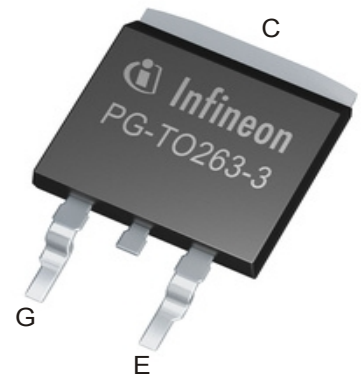
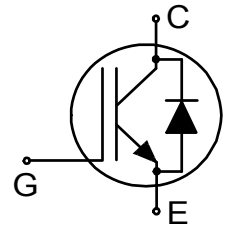


High speed switching series 5<sup>th</sup> generation

## TRENCHSTOP™ 5 high speed switching IGBT copacked with full rated current RAPID 1 anti parallel diode

### Features and Benefits:

- High speed H5 technology offering
- Best-in-Class efficiency in hard switching and resonant topologies
  - 650V breakdown voltage
  - Low  $Q_G$
  - IGBT copacked with full rated current 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/>



### Potential Applications:

- Energy Generation
  - Solar String Inverter
  - Solar Micro Inverter
- Industrial Power Supplies
  - Industrial SMPS
  - Industrial UPS
- Metal Treatment
  - Welding
- Energy Distribution
  - Energy Storage
- Infrastructure – Charge
  - Charger

### Product Validation:

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



### Key Performance and Package Parameters

Type	$V_{CE}$	$I_C$	$V_{CEsat}, T_{vj}=25^{\circ}C$	$T_{vjmax}$	Marking	Package
IKB40N65EH5	650V	40A	1.65V	175°C	K40EEH5	PG-TO263-3

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