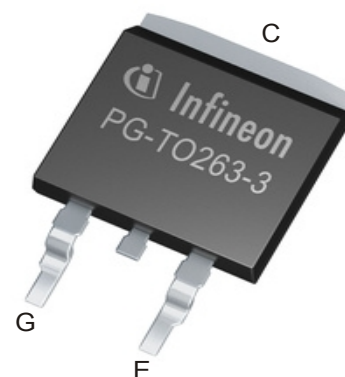
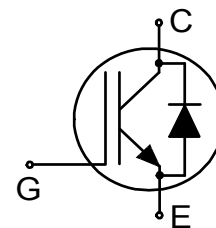


High speed switching series 5<sup>th</sup> generation

TRENCHSTOP™ 5 high speed soft switching IGBT copacked with full rated current RAPID 1 fast and soft anti parallel 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
  - 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
IKB40N65ES5	650V	40A	1.35V	175°C	K40EES5	PG-TO263-3

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