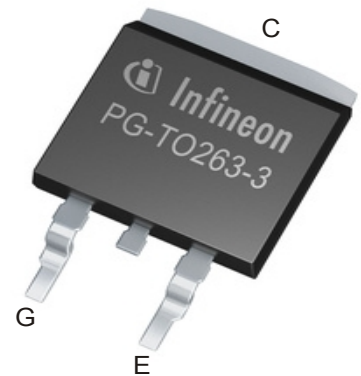


High speed switching series 5th generation

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
IKB30N65ES5	650V	30A	1.35V	175°C	K30EES5	PG-TO263-3

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