

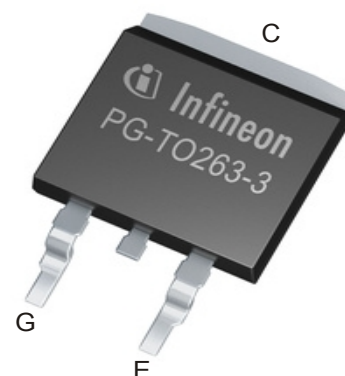
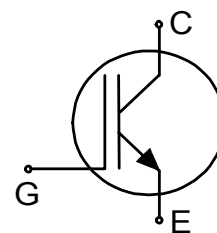
High speed switching series fifth generation

## TRENCHSTOP™ 5 high speed soft switching IGBT

### 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  $Q_G$
- 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
IGB20N65S5	650V	20A	1.35V	175°C	G20ES5	PG-TO263-3

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