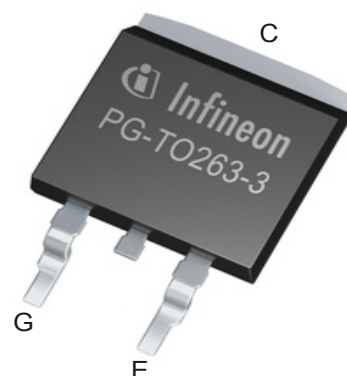
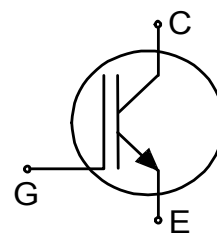


High speed switching series fifth generation

High speed IGBT in TRENCHSTOP™ 5 technology

Features and Benefits:

- High speed H5 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
 - Maximum junction temperature 175°C
 - Dynamically stress tested
 - Qualified according to AEC-Q101
 - Green package (RoHS compliant)
 - Complete product spectrum and PSpice Models:
<http://www.infineon.com/igbt/>



Applications:

- Off-board charger
- On-board charger
- DC/DC converter
- Power-Factor correction

Package pin definition:

- Pin 1 - gate
- Pin 2 & backside - collector
- Pin 3 - emitter



Key Performance and Package Parameters

| Type | V_{CE} | I_C | $V_{CEsat}, T_{vj}=25^{\circ}C$ | T_{vjmax} | Marking | Package |
|-------------|----------|-------|---------------------------------|-------------|---------|------------|
| AIGB50N65H5 | 650V | 50A | 1.65V | 175°C | AG50EH5 | PG-TO263-3 |



Table of Contents

Description 1

Table of Contents 2

Maximum Ratings 3

Thermal Resistance 3

Electrical Characteristics 3

Electrical Characteristics Diagrams 6

Package Drawing11

Testing Conditions12

Revision History13

Disclaimer14