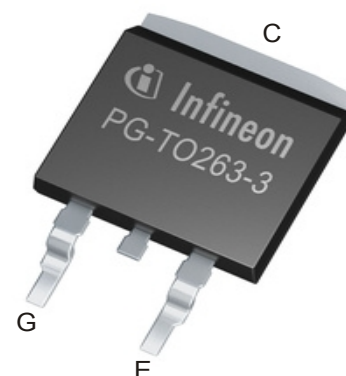
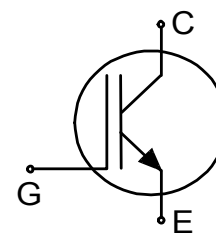


High speed switching series fifth generation

High speed FAST IGBT in TRENCHSTOP™ 5 technology

Features and Benefits:

- High speed F5 technology offering:
- Best-in-Class efficiency in hard switching and resonant topologies
 - 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
AIGB30N65F5	650V	30A	1.6V	175°C	AG30EF5	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