IGBT

High speed 5 IGBT in TRENCHSTOP™ 5 technology

IGZ100N65H5

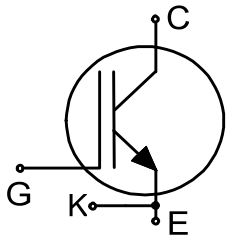
650V IGBT high speed series fifth generation

Data sheet

Industrial Power Control

High speed 5 IGBT in TRENCHSTOP™ 5 technology

Features and Benefits:



High speed H5 technology offering
• Ultra low loss switching thanks to Kelvin emitter pin in combination with TRENCHSTOP™ 5
• 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
• Qualified according to JEDEC for target applications
• Pb-free lead plating; RoHS compliant
• Complete product spectrum and PSpice Models: http://www.infineon.com/igbt/

Applications

• Uninterruptible power supplies
• Welding converters
• Mid to high range switching frequency converters
• Solar string inverters

Package pin definition:

• Pin C & backside - collector
• Pin E - emitter
• Pin K - Kelvin emitter
• Pin G - gate

Please note: The emitter and Kelvin emitter pins are not exchangeable. Their exchange might lead to malfunction.

Pb Green
Halogen-Free
RoHS

Key Performance and Package Parameters

Type	V_{CE}	I_C	V_{CEsat}, T_{vj}=25°C	T_{vjmax}	Marking	Package
IGZ100N65H5	650V	100A	1.65V	175°C	G100EH5	PG-TO247-4