

IGBT

Low $V_{CE(sat)}$ IGBT in TRENCHSTOP™ 5 technology copacked with RAPID 1 fast and soft antiparallel diode

IKZ75N65EL5

650V DuoPack IGBT and diode
Low $V_{CE(sat)}$ series fifth generation

Data sheet

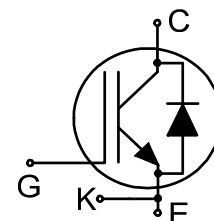
Low $V_{CE(sat)}$ series fifth generation

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Features and Benefits:

Low $V_{CE(sat)}$ L5 technology offering

- Very low collector-emitter saturation voltage V_{CEsat}
- Best-in-Class tradeoff between conduction and switching losses
- 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
- Solar photovoltaic inverters
- Welding machines

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.



Key Performance and Package Parameters

Type	V_{CE}	I_C	$V_{CEsat}, T_{vj}=25^{\circ}C$	T_{vjmax}	Marking	Package
IKZ75N65EL5	650V	75A	1.1V	175°C	K75EEL5	PG-TO247-4