

Reverse Conducting Series

Reverse conducting IGBT with monolithic body diode

IKW50N65WR5

Data sheet

Industrial Power Control

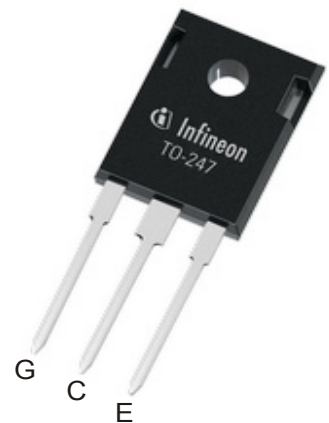
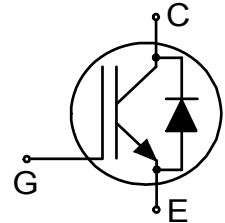
Reverse conducting IGBT with monolithic body diode

Features:

- Powerful monolithic diode optimized for ZCS applications
- TRENCHSTOP™ 5 technology applications offers:
 - high ruggedness, temperature stable behavior
 - very low V_{CEsat} and low E_{off}
 - easy parallel switching capability due to positive temperature coefficient in V_{CEsat}
- Low EMI
- Low electrical parameters depending (dependence) on temperature
- Qualified according to JESD-022 for target applications
- Pb-free lead plating; RoHS compliant
- Complete product spectrum and PSpice Models:
<http://www.infineon.com/igbt/>

Applications:

- Welding
- PFC
- ZCS - converters



Key Performance and Package Parameters

Type	V_{CE}	I_C	$V_{CEsat}, T_{vj}=25^{\circ}C$	T_{vjmax}	Marking	Package
IKW50N65WR5	650V	50A	1.4V	175°C	K50EWR5	PG-TO247-3