

Resonant Switching Series

Reverse Conducting IGBT with monolithic body diode

IHW20N120R5

Data sheet

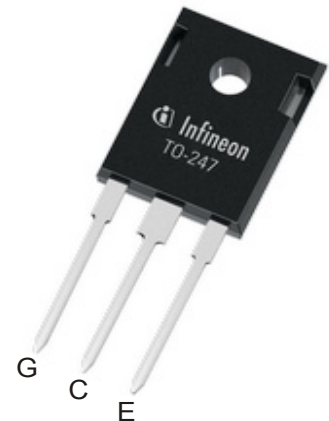
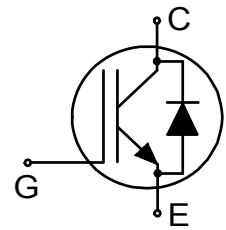
Industrial Power Control

Resonant Switching Series

Reverse Conducting IGBT with monolithic body diode

Features:

- Powerful monolithic body diode with low forward voltage designed for soft commutation
- TRENCHSTOP™ technology offering:
 - very tight parameter distribution
 - high ruggedness, temperature stable behavior
 - low V_{CEsat}
 - easy parallel switching capability due to positive temperature coefficient in V_{CEsat}
- Low EMI
- Pb-free lead plating; RoHS compliant
- Halogen free (according to IEC 61249-2-21)
- Complete product spectrum and PSpice Models:
<http://www.infineon.com/igbt/>

**Applications:**

- Inductive cooking
- Inverterized microwave ovens
- Resonant converters
- Soft switching applications

Product Validation:

Qualified for industrial applications according to the relevant tests of JEDEC47/20/22

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
IHW20N120R5	1200V	20A	1.55V	175°C	H20MR5	PG-TO247-3