



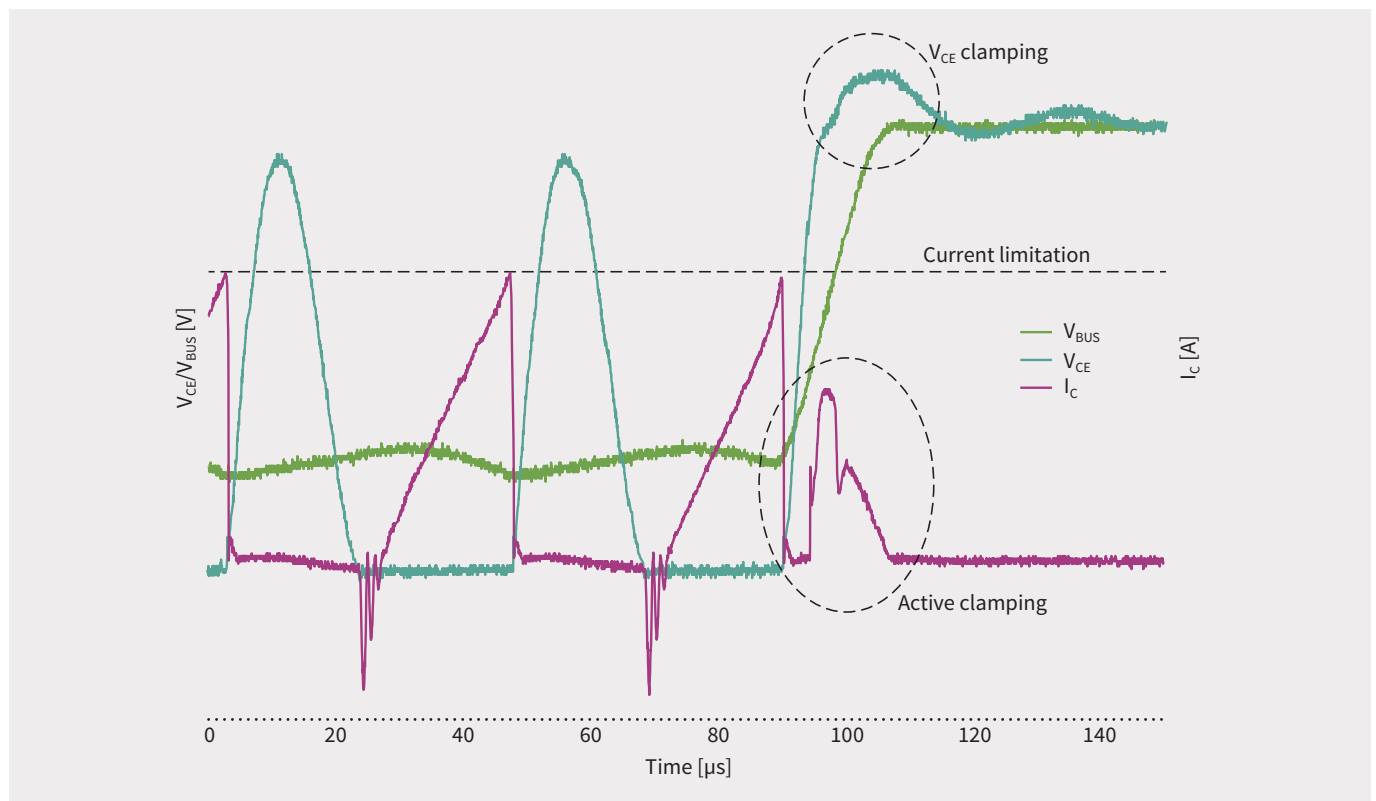
# TRENCHSTOP™ feature IGBT

## Protected series for induction heating

The single TO-247 6-pin package includes IGBT + driver with protection functionality, with same the dimensions and single screw hole as standard TO-247 3- and 4-pin packages.

This package allows for easier handling during manufacturing, as well as less board space. Combined with a simplified application design requiring fewer components, total cost and design-in effort are reduced.

### Typical clamping behaviour



### Protected IGBT parameter table

Part number	$I_C @ 100\text{ }^\circ\text{C}$ [A]	$V_{br}$ [V]	$V_{CE(sat)} @ 25\text{ }^\circ\text{C}, I_{nom}$ [V]	$E_{off, soft} @ 25\text{ }^\circ\text{C}, I_{nom}$ [mJ]	$V_f @ 25\text{ }^\circ\text{C}, I_{nom}$ [V]	$I_f @ 100\text{ }^\circ\text{C}$ [A]	UVLO [V]	Typ. propagation delay	
								On (ns)	Off (µs)
IEW20R5135IPB20	20	1350	1.65	0.26	1.71	20	13	670	2

Published by  
Infineon Technologies AG  
81726 Munich, Germany

© 2018 Infineon Technologies AG.  
All Rights Reserved.

#### Please note!

THIS DOCUMENT IS FOR INFORMATION PURPOSES ONLY AND ANY INFORMATION GIVEN HEREIN SHALL IN NO EVENT BE REGARDED AS A WARRANTY, GUARANTEE OR DESCRIPTION OF ANY FUNCTIONALITY, CONDITIONS AND/OR QUALITY OF OUR PRODUCTS OR ANY SUITABILITY FOR A PARTICULAR PURPOSE. WITH REGARD TO THE TECHNICAL SPECIFICATIONS OF OUR PRODUCTS, WE KINDLY ASK YOU TO REFER TO THE RELEVANT PRODUCT DATA SHEETS PROVIDED BY US. OUR CUSTOMERS AND THEIR TECHNICAL DEPARTMENTS ARE REQUIRED TO EVALUATE THE SUITABILITY OF OUR PRODUCTS FOR THE INTENDED APPLICATION.

WE RESERVE THE RIGHT TO CHANGE THIS DOCUMENT AND/OR THE INFORMATION GIVEN HEREIN AT ANY TIME.

#### Additional information

For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office ([www.infineon.com](http://www.infineon.com)).

#### Warnings

Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by us in a written document signed by authorized representatives of Infineon Technologies, our products may not be used in any life-endangering applications, including but not limited to medical, nuclear, military, life-critical or any other applications where a failure of the product or any consequences of the use thereof can result in personal injury.