



# New Product Introduction



February 2019

[PROFET+2 — Infineon's latest protected high-side power switch](#)

[Easy with TRENCHSTOP™ IGBT7—Higher power density and optimised switching](#)

[XHPTM 3 3,3kV — FF450R33T3E3 & FF450R33T3E3 B5](#)

[Evaluation board for motor drive featuring CIPOS™ Maxi IPM 1200V \(IM818-MCC IPM\)](#)

[Shield2Go featuring High-performance digital MEMS Microphone IM69D130—S2GO MEMSMIC](#)

[600 V CoolMOS™ CSFD - High voltage superjunction MOSFET for EV-charging applications](#)

[POSITION2GO development kit](#)

[BGA855N6 Low Noise Amplifier for Lower L-Band GNSS Applications](#)

[CoolSiC™ Automotive Schottky Diode](#)

[BTS50010-1TAE - smart high-side switch to drive currents up to 40A DC in 12V systems](#)

## Easy with TRENCHSTOP™ IGBT7—Higher power density and optimised switching

Infineon's new 1200 V TRENCHSTOP™ IGBT7 and EC7 diode technology is based on latest micro-pattern trenches technology which provide strongly reduced losses and offer a high level of controllability.

The chip is specially optimized for industrial drives applications, which means much lower static losses, higher power density and softer switching. Additionally, by raising the allowed maximum operation temperature up to 175 °C in the power module, an increase of the output current of up to 40 % can be obtained.



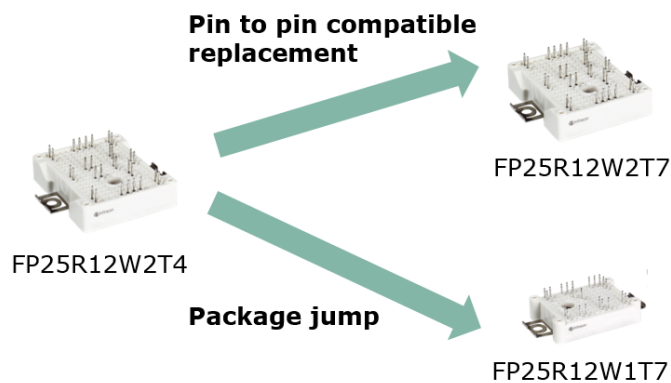
### Features

- > Lowest on state voltage  $V_{CE(sat)}$  and  $V_f$
- >  $T_{vj\ op}=175^{\circ}C$  at overload
- > Enhanced controllability of  $dv/dt$
- > Optimized switching losses for  $dv/dt = 5kV/\mu s$
- > 8  $\mu s$  short-circuit robustness
- > Improved FWD softness

### Benefits

- > Higher power density
- > Smaller power modules with the same current output (e.g. 25A PIM in Easy1B)
- > Low losses to meet energy efficiency requirements
- > Optimized trade-off between losses and EMI
- > Lower system cost

### Higher power density and frame size jump



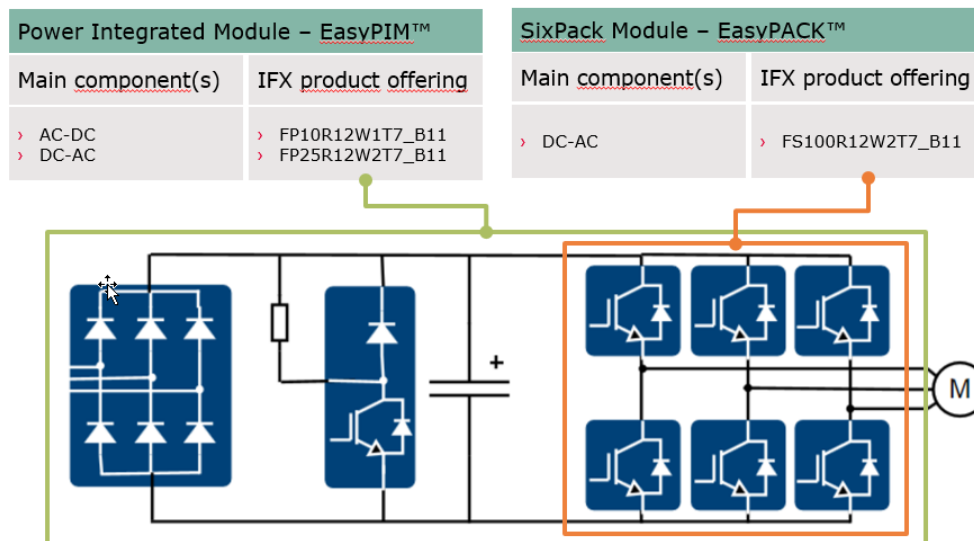
### Target applications

- > Drives
- > Industrial robots
- > Commercial aircon
- > CAV

### Product collaterals / Online support

- > Product family [page](#)
- > Right fit for Industrial Drives [article](#)
- > Customer [connector](#)
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- > Webinar - Distributor [training](#)

### Perfect fit for Industrial Drives applications



Product overview incl. data sheet link

OPN	SP Number	Registerable	MDQ	MQQ	MOQ	Package	DC in USD/1 pc
<a href="#">FP10R12W1T7B11BOMA1</a>	SP001655200	Y	1.008	1.008	24	AG-EASY1B-2	18,7000
<a href="#">FP25R12W1T7B11BPSA1</a>	SP001656938	Y	1.008	1.008	24	AG-EASY1B-2	26,5500
<a href="#">FS100R12W2T7B11BOMA1</a>	SP001656864	Y	1.005	1.005	15	AG-EASY2B-2	46,7600