



# Smart Semiconductor Solutions for Smart Home Appliances

Fuji Electric offers the right products for your latest smart home appliances to ensure reliable performance, day in and day out.



## Small Capacity IPMs

Fuji Electric has developed a compact, high-capacity intelligent power module with internal control IC, IGBT drive circuitry, and built-in protection features (IPM) ideally suited for large capacity air conditioning systems, industrial inverters, and servo systems. Applying the 7th generation X series IGBT chip technology to the new IPMs, leads to a significant reduction of losses. In combination with the maximized operating temperature due to highly heat resistant packaging technology, using the new IPM series will allow energy savings and miniaturization of your applications.

## Power MOSFETs

Fuji Electric's Si & SiC power MOSFETs are designed for use in a wide variety of applications including consumer and industrial equipment applications and vehicle-mounted applications. Our lineup of power MOSFETs range from low to high withstand voltage types with low power loss, low noise, and low on-resistance.

We have also developed the "Super J MOS®" Series using super-junction technology, mainly for 600V withstand voltage products.



## Discrete IGBTs

Our discrete 600V/1200V Class IGBTs are designed for applications such as UPS, power conditioners, air conditioners, and welding machines. They can be applied to power factor correction circuits and DC/AC converter circuits and include standard and high-speed options.

Our product range includes isolated TO-247 packages, and TO-247-4 with Kelvin pin connection as well as versions developed using Fuji Electric's unique RB-IGBT technology which can be configured for bi-directional switching and 3-level inverter circuits.



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