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7th-Generation “X Series” RC-IGBT Module

Now also available for industrial Applications

In recent years, IGBT modules have been increasingly required to be smaller in size while exhibiting lower loss and higher reliability. To meet the requirements, Fuji Electric has developed an industrial-use reverse conducting IGBT (RC-IGBT) module by using an RC-IGBT that integrates an IGBT and a freewheeling diode (FWD) on a single chip. Furthermore, the module greatly reduces loss and thermal resistance and enhances reliability through optimization based on our 7th-generation “X Series” technology. These technology innovations have achieved enhancements such as expansion of rated current, increased power density and miniaturization, all of which were impossible through the combination of conventional IGBT and FWD.

Main features:

- Reduced power losses
- Expanded current rating
- Increased output power
- $T_J (op)$, max = 175°C
- T storage = -40°C to +175°C
- Available with solder pins and pressfit contacts