

FGH75T65SQD_F155

IGBT Fieldstop Gen 4: A Class of it's Own



EBV ELEKTRONIK presents:
Fairchild's Fieldstop 4th generation IGBT's switch fast and with low loss, but also they switch soft and generate the lowest spike voltages, less ringing and therefore less EMI Challenges and reliability concerns. EBV ELEKTRONIK presents: a 650V, 75A Field Stop Trench IGBT, the FGH75T65SQD.

Using novel field stop IGBT technology, Fairchild's new series of field stop 4th generation IGBTs offer the optimum performance for solar inverter, UPS, welder, telecom, ESS and PFC applications where low conduction and switching losses are essential.

The Fieldstop 4 generation is leading IGBT technology providing best IGBT FOM (Figure Of Merit) and we will release part at different points of the $V_{CE(sat)}/E_{off}$ tradeoff curve in order to tailor this IGBT technology as a best choice for any application and topology.



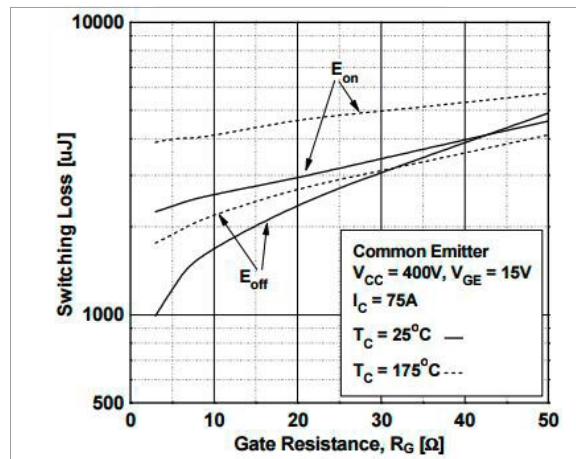
FGH75T65SQD

KEY FEATURES

- Maximum junction temperature: $T_J = 175^\circ\text{C}$
- Positive temperature co-efficient for easy parallel operating
- High current capability
- Low saturation voltage: $V_{CE(sat)} = 1.6\text{V(Typ.) @ } I_C = 75\text{A}$
- 100% of the parts tested for $I_{LM}(1)$
- High input impedance
- Fast switching
- Tighten parameter distribution
- RoHS compliant

APPLICATION EXAMPLES

- Solar Inverter
- UPS
- Welder
- Telecom
- ESS
- PFC



FGH75T65SQD Switching Loss vs. Gate Resistance