## TRENCHSTOP™ 5 S5

| Value | Industrial application focus |
| --- | --- |
| **Best-in-class ease of use IGBT**<br>› Low $V_{CE(sat)}$ of 1.35V at 25°C<br>› Soft current fall characteristic with no tail current, low EMI<br>› Allows to reduce circuit complexity - single $R_G$, no Zener diode, no gate capacitor, no snubber capacitor | › Medium frequency converters<br>› Multilevel inverter stages<br>› Output stages<br>› PFC |

## TRENCHSTOP™ 5 L5

| Value | Industrial application focus |
| --- | --- |
| **Best-in-class low $V_{CE(sat)}$ IGBT**<br>› Low $V_{CE(sat)}$ – 1.05V at 25°C<br>› Best trade-off $V_{CE(sat)}$ versus $E_{ts}$ for frequencies below 20kHz<br>› High thermal stability of electrical parameters | › Ultra low frequency converters<br>› 3-level inverter type I NPC 1 and NPC 2<br>› Modified HERIC inverter<br>› AC output (aluminum/magnesium welding) |

## TRENCHSTOP™ 5 H5/F5

| Value | Industrial application focus |
| --- | --- |
| **Best-in-class high frequency IGBT**<br>› Cross over to superjunction MOSFETs<br>› Highest efficiency especially under light load conditions<br>› Lowest switching losses in low strayinductance environment | › High frequency converters<br>› Multilevel inverter stages<br>› Output stages<br>› PFC and battery charger |

## TRENCHSTOP™ 5 WR5

| Value | Industrial application focus |
| --- | --- |
| **Price optimized, application specific IGBT for resonant topologies, Zero Current Switching**<br>› Optimized full rated hard switching turn off typically found in welding<br>› Excellent $R_G$ controllability<br>› Soft recovery plus low $Q_{rr}$ for diode | › Medium frequency converters<br>› Zero-current switching<br>› PFC |