



MBQ60T65PES

High Speed Fieldstop Trench IGBT Second Generation

General Description

This IGBT is produced using advanced MagnaChip's Field Stop Trench IGBT 2nd Generation Technology, which is not only the highest efficiency capable of switching behavior, but also it is high ruggedness and excellent quality for solar inverter, UPS, IH, welder and PFC application where low conduction losses are essential

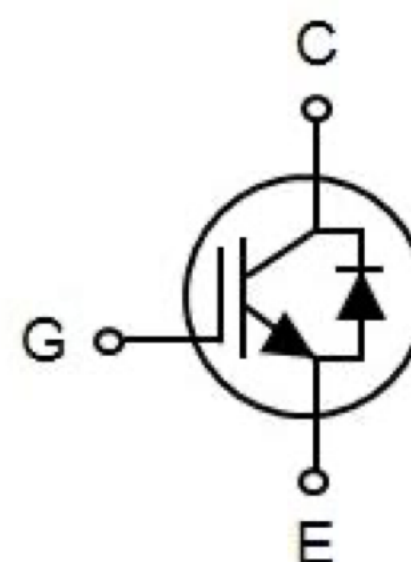
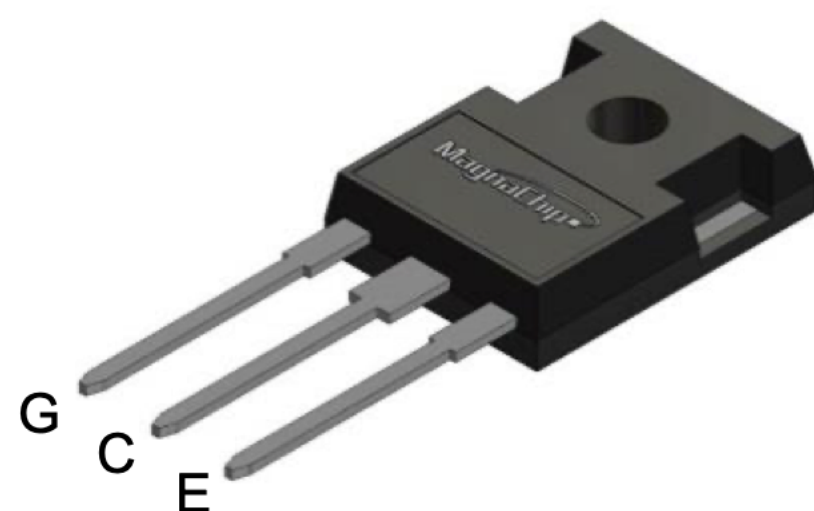
Features

- High Speed Switching & Low Power Loss
- $V_{CE(sat)} = 1.85V @ I_C = 60A$
- $E_{off} = 0.53mJ @ T_C = 25^{\circ}C$
- High Input Impedance
- $t_{rr} = 110ns$ (typ.) @ $di_F/dt = 500A/\mu s$
- Maximum Junction Temperature $175^{\circ}C$

Applications

- PFC
- UPS
- PV Inverter
- Welder
- IH Cooker

TO-247



Maximum Rating

Parameter	Symbol	Rating	Unit
Collector-emitter voltage	V_{CE}	650	V