

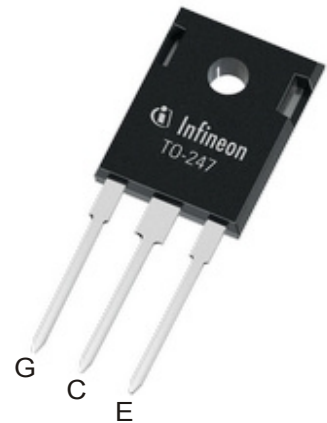
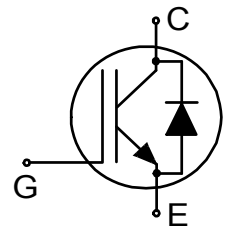
## TRENCHSTOP™ IGBT 7

## Low Loss Duopack: IGBT with Trench and Fieldstop technology

**Features:**

TRENCHSTOP™ IGBT 7 technology offering

- Very low  $V_{CEsat}$
- Low turn-off losses
- Short tail current
- Reduced EMI
- Humidity robust design
- Very soft, fast recovery anti-parallel diode
- Maximum junction temperature 175°C
- Qualified according to JEDEC for target applications
- Pb-free lead plating; RoHS compliant
- Complete product spectrum and PSpice Models:  
<http://www.infineon.com/igbt7/>

**Applications:**

- Drives
  - Servo
  - GPD
- Industrial Power Supplies
  - Industrial UPS
  - Residential UPS
- Energy Generation
  - Solar Central Inverter
  - Solar String Inverter
  - Solar Pump

**Product Validation:**

Qualified for industrial applications according to the relevant tests of JEDEC47/20/22

**Package pin definition:**

- Pin C & backside - Collector
- Pin E - Emitter
- Pin G - Gate

**Key Performance and Package Parameters**

Type	$V_{CE}$	$I_C$	$V_{CEsat}, T_{vj}=25^\circ\text{C}$	$T_{vjmax}$	Marking	Package
IKW50N65ET7	650V	50A	1.35V	175°C	K50EET7	PG-TO247-3

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