

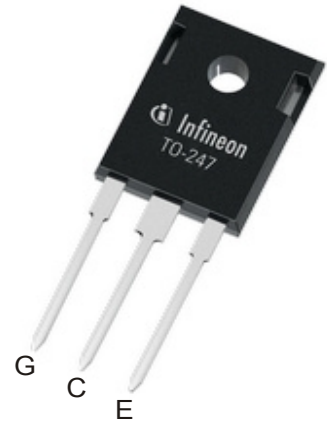
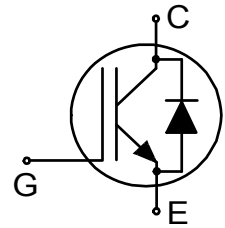
TRENCHSTOP™ IGBT 7

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	$V_{CEsat}, T_{vj}=25^{\circ}C$	T_{vjmax}	Marking	Package
IKW75N65ET7	650V	75A	1.35V	175°C	K75EET7	PG-TO247-3

Table of Contents

Description	1
Table of Contents	2
Maximum Ratings	3
Thermal Resistance	3
Electrical Characteristics	4
Electrical Characteristics Diagrams	7
Package Drawing	14
Testing Conditions	15
Revision History	16
Disclaimer	17