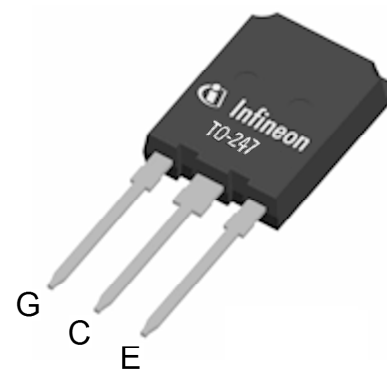
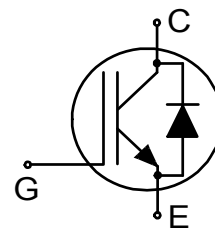


## TRENCHSTOP™ series

## Low Loss DuoPack : IGBT in TRENCHSTOP™ and Fieldstop technology with soft, fast recovery anti-parallel Emitter Controlled diode

**Features:**

- Very low  $V_{CE(sat)}$  1.5V (typ.)
- Maximum junction temperature 175°C
- Short circuit withstand time 5 $\mu$ s
- TRENCHSTOP™ and Fieldstop technology for 600V applications offers:
  - very tight parameter distribution
  - high ruggedness, temperature stable behavior
  - high switching speed
- Positive temperature coefficient in  $V_{CE(sat)}$
- Low EMI
- Low gate charge  $Q_G$
- Increased current capability
- Green package
- Very soft, fast recovery anti-parallel Emitter Controlled HE diode

**Applications:**

- General purpose inverters
- Uninterruptible power supplies
- Motor drives
- Medium to low switching frequency power converters

**Key Performance and Package Parameters**

Type	$V_{CE}$	$I_C$	$V_{CE(sat)}$ , $T_{vj}=25^\circ\text{C}$	$T_{vjmax}$	Marking	Package
IKQ100N60T	600V	100A	1.5V	175°C	K100T60	PG-TO247-3-46

## Table of Contents

Description .....	1
Table of Contents .....	2
Maximum Ratings .....	3
Thermal Resistance .....	3
Electrical Characteristics .....	4
Electrical Characteristics Diagrams .....	6
Package Drawing .....	13
Testing Conditions .....	14
Revision History .....	15
Disclaimer .....	16