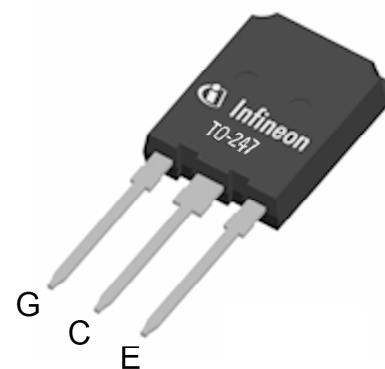
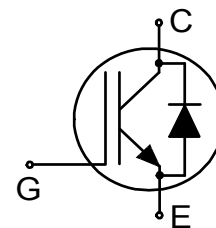


TRENCHSTOP™ series

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 5µs
- 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
IKQ120N60T	600V	120A	1.5V	175°C	K120T60	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