

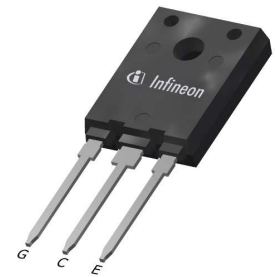
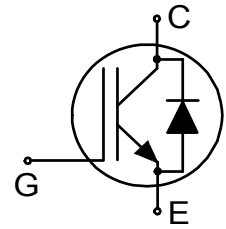
TRENCHSTOP™ Advanced Isolation

TRENCHSTOP™ IGBT copacked with Rapid 1 fast and soft antiparallel diode in fully isolated package

Features:

TRENCHSTOP™ technology offers :

- Very low $V_{CE(sat)}$
- Short circuit withstand time $5\mu s$ at $T_{vj} = 175^{\circ}C$
- Positive temperature coefficient in $V_{CE(sat)}$
- Low EMI
- Very soft, fast recovery anti-parallel diode
- Maximum junction temperature $175^{\circ}C$
- 2500 V_{RMS} electrical isolation, 50/60 Hz, $t = 1$ min
- 100 % tested isolated mounting surface
- Pb-free lead plating; RoHS compliant
- Complete product spectrum and PSpice Models : <http://www.infineon.com/igbt>



Fully isolated package TO-247

Potential Applications:

- General Purpose Drives (GPD)
- Servo Drives
- Industrial UPS
- Welding
- Solar String Inverter

Product Validation:

Qualified for industrial applications according to the relevant tests of JEDEC 47/20/22

**Key Performance and Package Parameters**

Type	V_{CE}	I_C	$V_{CE(sat)}$, $T_{vj}=25^{\circ}C$	T_{vjmax}	Marking	Package
IKFW50N60ET	600V	50A	1.5V	$175^{\circ}C$	K50DET	PG-TO247-3-AI

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