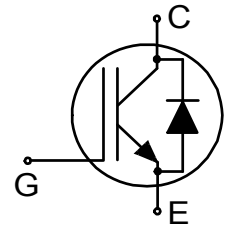


CoolSiC™ Hybrid IGBT for Automotive

Discrete 650V Hybrid with TRENCHSTOP™ 5 Fast-Switching IGBT and CoolSiC™ Schottky Diode G5 for Automotive

Features and Benefits:

- Best-in-Class efficiency in hard switching and resonant topologies
- 650V break-down voltage
- Trenchstop™ 5 fast-switching IGBT
- CoolSiC™ Schottky Diode G5
- Low gate charge Q_g
- Maximum junction temperature 175°C
- Qualified according to AEC-Q101/100
- Pb-free lead plating; RoHS compliant

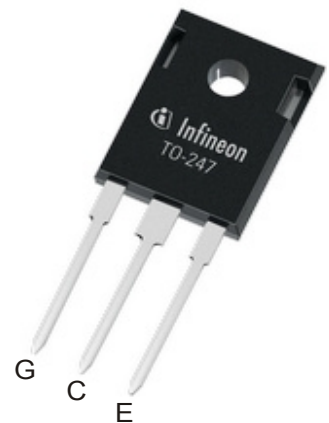


Applications:

- On-board charger
- DC/DC converter

Package pin definition:

- Pin 1 - gate
- Pin 2 & backside - collector
- Pin 3 - emitter



Key Performance and Package Parameters

Type	V_{CE}	I_C	$V_{CEsat}, T_{vj}=25^\circ\text{C}$	T_{vjmax}	Marking	Package
AIKW50N65RF5	650V	50A	1.6V	175°C	AK50ERF5	PG-TO247-3



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