

IGBT

IGBT with integrated diode in packages offering space saving advantage

IKD04N60R, IKU04N60R

600V TRENCHSTOP™ RC-Series for hard switching applications

Datasheet

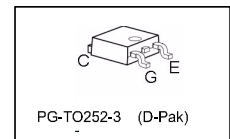
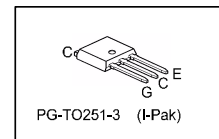
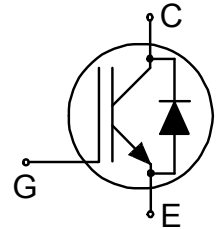
Industrial & Multimarket

IGBT with integrated diode in packages offering space saving advantage

Features:

TRENCHSTOP™ Reverse Conducting (RC) technology for 600V applications offering

- Optimised V_{CEsat} and V_F for low conduction losses
- Smooth switching performance leading to low EMI levels
- Very tight parameter distribution
- Operating range of 1 to 20kHz
- Maximum junction temperature 175°C
- Short circuit capability of 5μs
- Best in class current versus package size performance
- Qualified according to JEDEC for target applications
- Pb-free lead plating; RoHS compliant (for PG-TO252: solder temperature 260°C, MSL1)
- Complete product spectrum and PSpice Models:
<http://www.infineon.com/igbt/>



Applications:

- Consumer motor drives



Key Performance and Package Parameters

Type	V_{CE}	I_C	$V_{CEsat}, T_{vj}=25^\circ\text{C}$	T_{vjmax}	Marking	Package
IKD04N60R	600V	4A	1.65V	175°C	K04R60	PG-TO252-3
IKU04N60R	600V	4A	1.65V	175°C	K04R60	PG-TO251-3