

## TRENCHSTOP™ RC-Series for hard switching applications

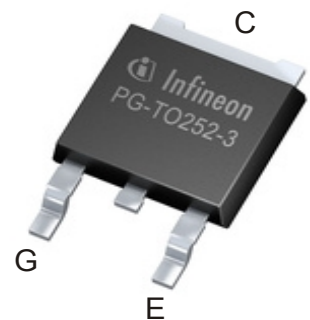
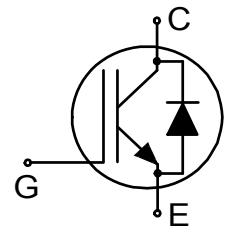
IGBT with integrated diode in packages offering space saving advantage

### 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
- Dynamically stress tested
- Short circuit capability of 5µs
- Best in class current versus package size performance
- Qualified according to AECQ101
- 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:

- HID lighting
- Piezo injection



### Key Performance and Package Parameters

Type	$V_{CE}$	$I_C$	$V_{CEsat}, T_{vj}=25^{\circ}C$	$T_{vjmax}$	Marking	Package
AIHD06N60R	600V	6A	1.65V	175°C	AH06DR	PG-TO252-3



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