

TRENCHSTOP™ RC-Drives Fast Series

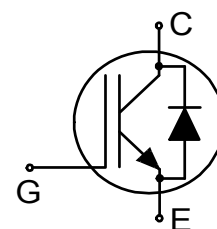
IGBT with integrated diode in packages offering space saving advantage

Features:

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

- Optimized E_{on} , E_{off} and Q_{rr} for low switching losses
- Operating range of 4 to 30kHz
- Smooth switching performance leading to low EMI levels
- Very tight parameter distribution
- Maximum junction temperature 175°C
- Dynamically stress tested
- Short circuit capability of 5μs
- Best in class current versus package size performance
- Qualified according to AEC-Q101
- Pb-free lead plating; RoHS compliant (solder temperature 260°C, MSL1)

Complete product spectrum and PSpice Models:
<http://www.infineon.com/igbt/>



Applications:

- Small drives
- Piezo injection
- Automotive lighting / HID



Key Performance and Package Parameters

Type	V_{CE}	I_C	$V_{CEsat}, T_{vj}=25^{\circ}C$	T_{vjmax}	Marking	Package
AIHD03N60RF	600V	2.5A	2.2V	175°C	AH03DRF	PG-T0252-3



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