

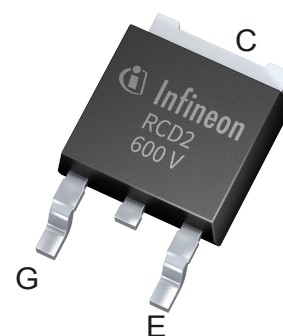
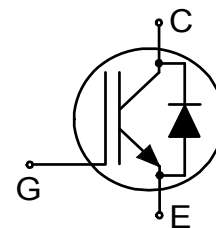
TRENCHSTOP™ RC-Series for hard switching applications

Cost effective monolithically integrated IGBT with Diode

Features:

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

- Very tight parameter distribution
- Operating range up to 20kHz
- Maximum junction temperature 175°C
- Short circuit capability of 3μs
- Humidity robust design
- Pb-free lead plating; RoHS compliant
- Complete product spectrum and PSpice Models:
<http://www.infineon.com/rc-d2>



Potential Applications:

- Major Home Appliances
 - Air Conditioning
 - Refrigerators
- Drives
 - GPD (General Purpose Drives)

Product Validation:

Qualified for industrial applications according to the relevant tests of JEDEC47/20/22



Key Performance and Package Parameters

Type	V _{CE}	I _C	V _{CEsat} , T _{vj} =25°C	T _{vjmax}	Marking	Package
IKD10N60RC2	600V	10A	2V	175°C	K10DRC2	PG-TO252-3

Table of Contents

Description	1
Table of Contents	2
Maximum Ratings	3
Thermal Resistance	3
Electrical Characteristics	4
Electrical Characteristics Diagrams	6
Package Drawing	13
Testing Conditions	14
Revision History	15
Disclaimer	16