



STGB14NC60K STGD14NC60K

N-channel 14A - 600V - DPAK - D²PAK
Short circuit rated PowerMESH™ IGBT

General features

Type	V _{CES}	V _{CE(sat)} (Max)@ 25°C	I _C @100°C
STGB14NC60K	600V	<2.5V	14A
STGD14NC60K	600V	<2.5V	14A

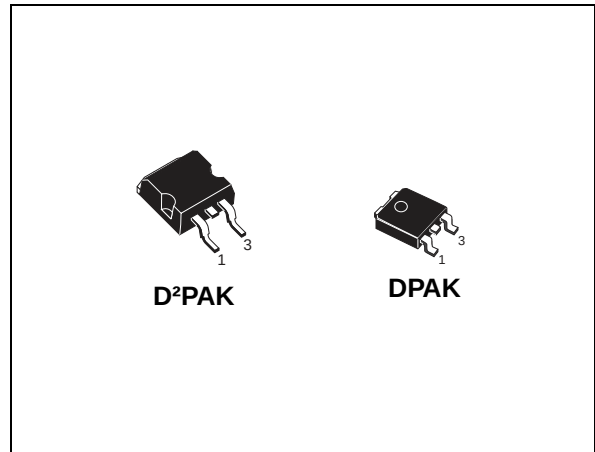
- Low on-voltage drop (V_{cesat})
- Low C_{res} / C_{ies} ratio (no cross conduction susceptibility)
- Short circuit withstand time 10μs

Description

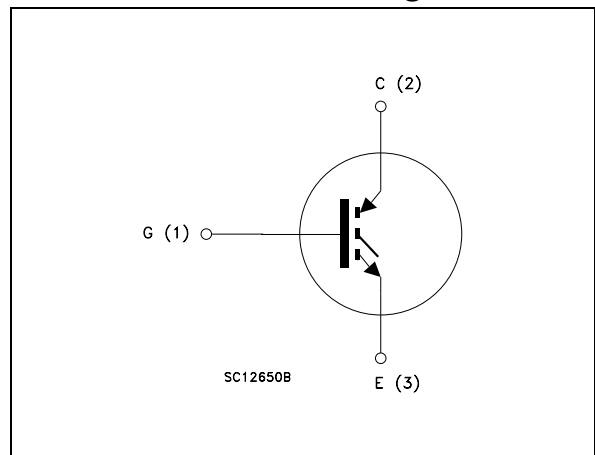
Using the latest high voltage technology based on a patented strip layout, STMicroelectronics has designed an advanced family of IGBTs, the Power MESH™ IGBTs, with outstanding performances. The suffix "K" identifies a family optimized for high frequency motor control applications with short circuit withstand capability.

Applications

- High frequency inverters
- Motor drivers with short circuit protection



Internal schematic diagram



Order codes

Part number	Marking	Package	Packaging
STGB14NC60KT4	GB14NC60K	D ² PAK	Tape & reel
STGD14NC60KT4	GD14NC60K	DPAK	Tape & reel

Contents

1 **Electrical ratings** **3**

2 **Electrical characteristics** **4**

 2.1 Electrical characteristics (curves) 6

3 **Test circuit** **9**

4 **Package mechanical data** **10**

5 **Packaging mechanical data** **13**

6 **Revision history** **15**

