



STP40NF20 - STF40NF20 STB40NF20 - STW40NF20

N-channel 200V - 0.038Ω -40A- D²PAK/TO-220/TO-220FP/TO-247
Low gate charge STripFET™ Power MOSFET

Features

Type	V _{DSS}	R _{DS(on)}	I _D	P _W
STB40NF20	200V	<0.045Ω	40A	160W
STP40NF20	200V	<0.045Ω	40A	160W
STF40NF20	200V	<0.045Ω	40A	40W
STW40NF20	200V	<0.045Ω	40A	160W

- Gate charge minimized
- Very low intrinsic capacitances
- Very good manufacturing repeatability
- Excellent figure of merit (R_{DS}*Q_g)
- 100% avalanche tested

Description

This Power MOSFET series realized with STMicroelectronics unique STripFET process has specifically been designed to minimize input capacitance and gate charge. It is therefore suitable as primary switch in advanced high-efficiency isolated DC-DC converters.

Applications

- Switching application

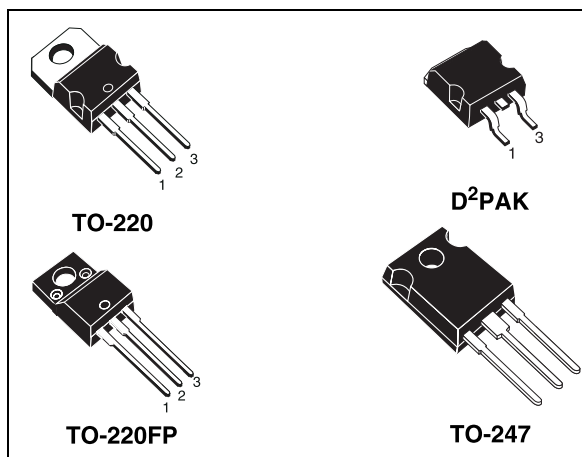


Figure 1. Internal schematic diagram

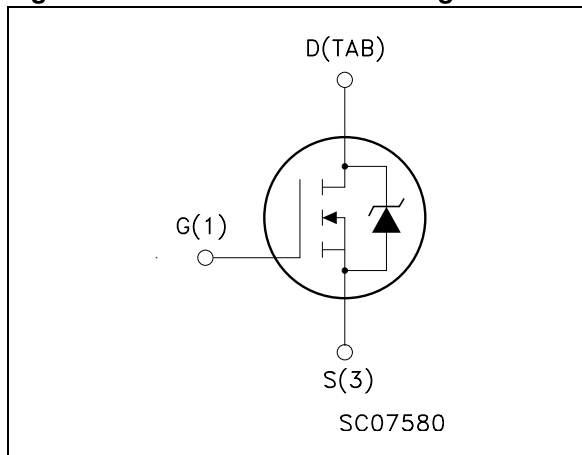


Table 1. Device summary

Order codes	Marking	Package	Packaging
STB40NF20	40NF20	D ² PAK	Tape & reel
STP40NF20	40NF20	TO-220	Tube
STF40NF20	40NF20	TO-220FP	Tube
STW40NF20	40NF20	TO-247	Tube