

N-channel 525 V, 1.25 Ω typ., 4.4 A UltraFASTmesh™ Power MOSFETs in DPAK and TO-220FP packages

Datasheet - production data

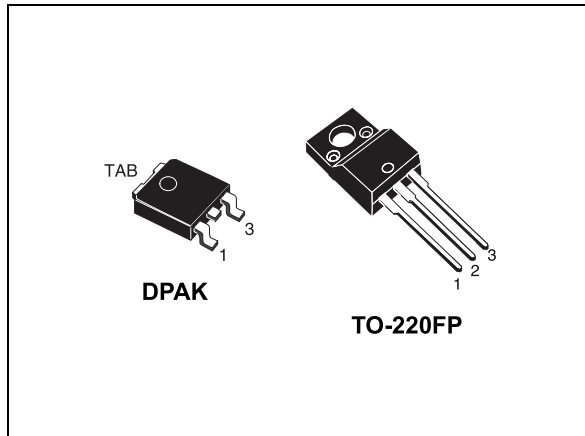
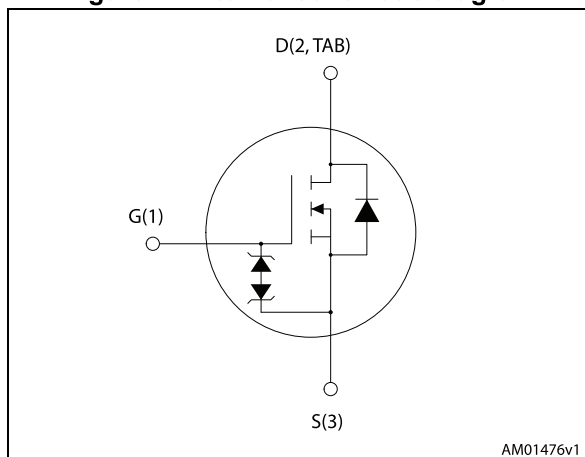


Figure 1. Internal schematic diagram



Features

Order codes	V_{DS}	$R_{DS(on) max}$	I_D	P_{TOT}
STD5N52U	525 V	1.5 Ω	4.4 A	70 W
STF5N52U				25 W

- Outstanding dv/dt capability
- Gate charge minimized
- Very low intrinsic capacitances
- Very low $R_{DS(on)}$
- Extremely low t_{rr}

Applications

- Switching applications

Description

These devices are N-channel Power MOSFETs developed using UltraFASTmesh™ technology, which combines the advantages of reduced on-resistance, Zener gate protection and very high dv/dt capability with an enhanced fast body-drain recovery diode.

Table 1. Device summary

Order codes	Marking	Package	Packaging
STD5N52U	5N52U	DPAK	Tape and reel
STF5N52U		TO-220FP	Tube