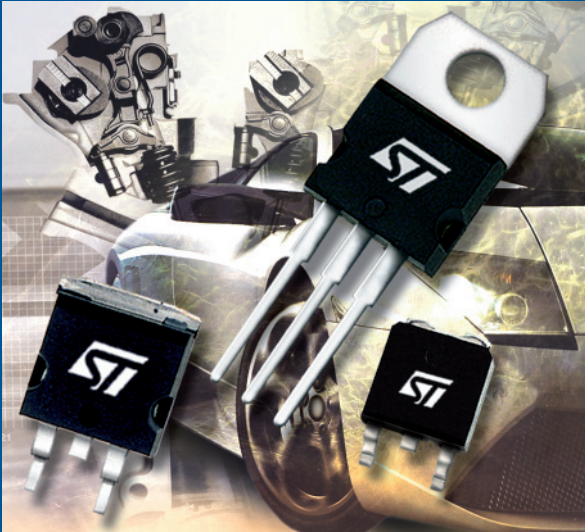


Fully compliant power MOSFETs for automotive solutions



STMicroelectronics' innovative power MOSFETs for automotive applications offer standard threshold and logic level drive versions, a 175 °C operating temperature and are 100 % avalanche tested.

The new generation of SAFeFET™ power MOSFET devices is particularly suitable for the automotive market. With the “Simple Added Features”, SAFeFET devices offer single integrated solutions achieving real cost effective systems for automotive applications.

Key criteria for automotive grade qualification

- Compliance with AEC guidelines Q101
- Compliance with AEC Q003 for product characterization
- Compliance with AEC Q002 guideline for Statistical Yield Analysis (SYA) and AEC Q001 for Part Average Test (PAT) at wafer level (EWS)
- Production Parts Approval Process (PPAP) document according to the AEC Q101

Main applications

- ABS / ESP (Antilock-Brake System / Electronic Stability Program)
- EPS (Electric Power Steering)
- Fan and climate control
- H.I.D. lamps
- Injection fuel pumps
- Diesel glow plugs
- Wiping systems

Power MOSFETs for automotive applications

Part number	V _{DSS} [V]	R _{DS(on)} [mΩ]	I _D [A]	Package
STB100NF03L-03-1	30	3.2	100	I ² PAK
STB100NF03L-03T4	30	3.2	100	D ² PAK
STB200NF03T4	30	3.6	120	D ² PAK
STB80NF03L-04T4	30	4.0	80	D ² PAK
STB80NF03L-04-1	30	4.0	80	I ² PAK
STD100N3LF3	30	5.5	80	DPAK
STD30NF03LT4	30	25	30	DPAK
STD18NF03L	30	50	17	DPAK
STB270N4F3	40	2.5	160	D ² PAK
STP270N4F3	40	2.9	120	TO-220
STB200NF04L	40	3.5	120	D ² PAK
STP200NF04L	40	3.8	120	TO-220
STB200N4F3	40	4.0	120	D ² PAK
STP100NF04	40	4.6	120	TO-220
STB100NF04T4	40	4.6	120	D ² PAK
STP95N4F3	40	6.5	80	TO-220
STD95N4F3	40	6.5	80	DPAK
STD30NF04LT	40	30	30	DPAK
STB185N55F3	55	3.5	120	D ² PAK
STP185N55F3	55	3.8	120	TO-220
STB150NF55T4	55	6.0	120	D ² PAK
STP150NF55	55	6.0	120	TO-220
STB80NF55-06-1	55	6.5	80	I ² PAK
STB80NF55-06T	55	6.5	80	D ² PAK
STB141NF55	55	8.0	80	D ² PAK
STB141NF55-1	55	8.0	80	I ² PAK
STP141NF55	55	8.0	80	TO-220
STB85NF55T4	55	8.0	80	D ² PAK
STP85NF55	55	8.0	80	TO-220
STP85NF55L	55	8.0	80	TO-220

Part number	V _{DSS} [V]	R _{DS(on)} [mΩ]	I _D [A]	Package
STB85NF55LT4	55	8.0	80	D ² PAK
STD65N55F3	55	8.5	80	DPAK
STD60NF55LAT4	55	15	60	DPAK
STD35NF06LT4	60	17	35	DPAK
STB60NF06T4	60	16	60	D ² PAK
STB45NF06T4	60	28	38	D ² PAK
STF40NF06	60	28	23	TO-220FP
STD30NF06T4	60	28	28	DPAK
STP36NF06L	60	40	30	TO-220
STD20NF06LT4	60	40	24	DPAK
STS5NF60L	60	55	5	SO-8
STS5DNF60L	60	55	4	SO-8
STD12NF06LT4	60	100	12	DPAK
STN4NF06L	60	100	4	SOT-223
STP76NF75	75	11	80	TO-220
STB76NF75	75	11	80	D ² PAK
STB60NF10-1	100	23	80	I ² PAK
STP60NF10	100	23	80	TO-220
STD25NF10LA	100	35	25	DPAK
STD26NF10	100	38	25	DPAK
STS4NF100	100	70	4	SO-8
STD5NM50T4	500	800	7.5	DPAK
STP180NS04ZC	33 (clamped)	4.2	120	TO-220
STP90NS04ZC	33 (clamped)	6	80	TO-220
STB130NS04ZBT4	33 (clamped)	9	80	D ² PAK
STP130NS04ZB	33 (clamped)	9	80	TO-220
STB130NS04ZB-1	33 (clamped)	9	80	I ² PAK
STP70NS04ZC	33 (clamped)	11	80	TO-220



© STMicroelectronics - October 2007 - Printed in Italy - All rights reserved

The STMicroelectronics corporate logo is a registered trademark of the STMicroelectronics group of companies. SAFeFET is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

For selected STMicroelectronics sales offices fax:

China +86 21 34054689; France +33 1 55489569; Germany +49 89 4605454; Italy +39 02 8250449; Japan +81 3 57838216; Singapore +65 64815124; Sweden +46 8 58774411; Switzerland +41 22 9292900; United Kingdom and Eire +44 1628 890391; USA+1 781 861 2678

Full product information at www.st.com