

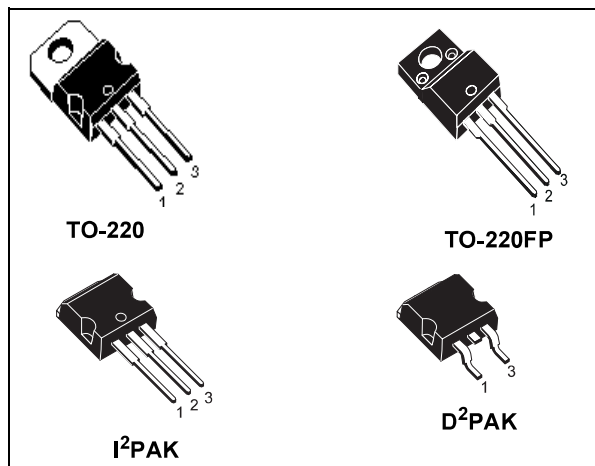


STP7NK80Z - STP7NK80ZFP STB7NK80Z - STB7NK80Z-1

N-CHANNEL 800V-1.5Ω - 5.2A TO-220/TO-220FP/I²PAK/D²PAK
Zener-Protected SuperMESH™ Power MOSFET

TYPE	V _{DSS}	R _{DS(on)}	I _D	P _w
STP7NK80Z	800 V	< 1.8 Ω	5.2 A	125 W
STP7NK80ZFP	800 V	< 1.8 Ω	5.2 A	30 W
STB7NK80Z	800 V	< 1.8 Ω	5.2 A	125 W
STB7NK80Z-1	800 V	< 1.8 Ω	5.2 A	125 W

- TYPICAL R_{DS(on)} = 1.5 Ω
- EXTREMELY HIGH dv/dt CAPABILITY
- 100% AVALANCHE TESTED
- GATE CHARGE MINIMIZED
- VERY LOW INTRINSIC CAPACITANCES
- VERY GOOD MANUFACTURING REPEATABILITY



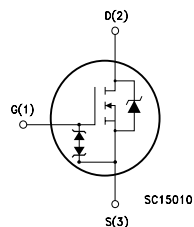
DESCRIPTION

The SuperMESH™ series is obtained through an extreme optimization of ST's well established strip-based PowerMESH™ layout. In addition to pushing on-resistance significantly down, special care is taken to ensure a very good dv/dt capability for the most demanding applications. Such series complements ST full range of high voltage MOSFETs including revolutionary MDmesh™ products.

APPLICATIONS

- HIGH CURRENT, HIGH SPEED SWITCHING
- SMPS FOR INDUSTRIAL APPLICATION.
- LIGHTING (PREHEATING)

INTERNAL SCHEMATIC DIAGRAM



ORDERING INFORMATION

SALES TYPE	MARKING	PACKAGE	PACKAGING
STP7NK80Z	P7NK80Z	TO-220	TUBE
STP7NK80ZFP	P7NK80ZFP	TO-220FP	TUBE
STB7NK80ZT4	B7NK80Z	D ² PAK	TAPE & REEL
STB7NK80Z	B7NK80Z	D ² PAK	TUBE (ONLY UNDER REQUEST)
STB7NK80Z-1	B7NK80Z	I ² PAK	TUBE