



STB20NM60-1 - STP20NM60FP STB20NM60 - STP20NM60 - STW20NM60

N-channel 600V - 0.25Ω - 20A - TO-247 - TO-220/FP - D²/I²PAK
MDmesh™ Power MOSFET

Features

| Type | V _{DSS} | R _{DS(on)} | I _D |
|-------------|------------------|---------------------|----------------|
| STP20NM60 | 600V | < 0.29Ω | 20A |
| STP20NM60FP | 600V | < 0.29Ω | 20A |
| STB20NM60 | 600V | < 0.29Ω | 20A |
| STB20NM60-1 | 600V | < 0.29Ω | 20A |
| STW20NM60 | 600V | < 0.29Ω | 20A |

- High dv/dt and avalanche capabilities
- 100% avalanche tested
- Low input capacitance and gate charge
- Low gate input resistance

Applications

- Switching applications

Description

The MDmesh™ is a new revolutionary Power MOSFET technology that associates the multiple drain process with the company's PowerMESH™ horizontal layout. The resulting product has an outstanding low on-resistance, impressively high dv/dt and excellent avalanche characteristics. The adoption of the company's proprietary strip technique yields overall dynamic performance that is significantly better than that of similar competition's products.

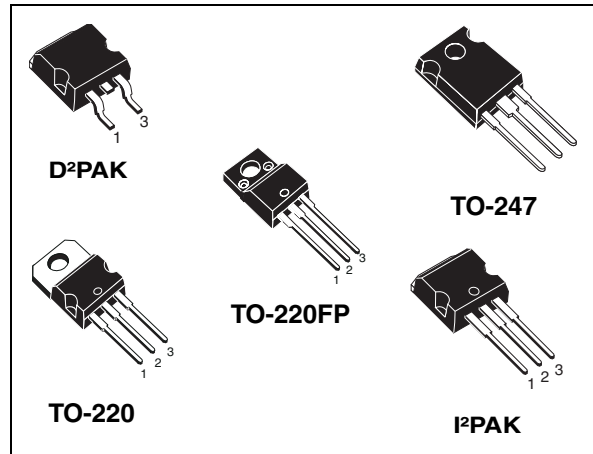


Figure 1. Internal schematic diagram

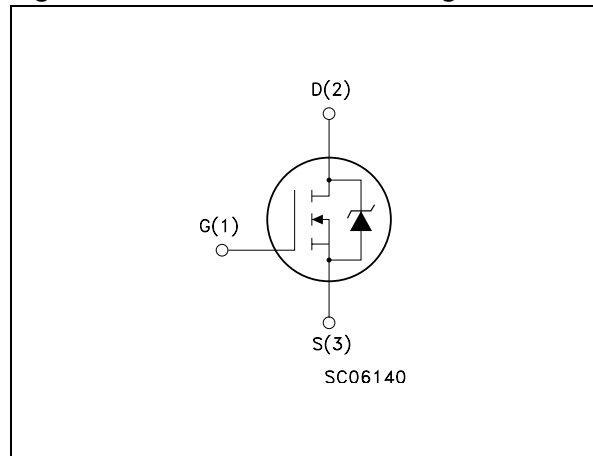


Table 1. Device summary

| Part number | Marking | Package | Packaging |
|-------------|-----------|--------------------|-------------|
| STP20NM60 | P20NM60 | TO-220 | Tube |
| STP20NM60FP | P20NM60FP | TO-220FP | Tube |
| STB20NM60T4 | B20NM60 | D ² PAK | Tape & reel |
| STB20NM60-1 | B20NM60-1 | I ² PAK | Tube |
| STW20NM60 | W20NM60 | TO-247 | Tube |