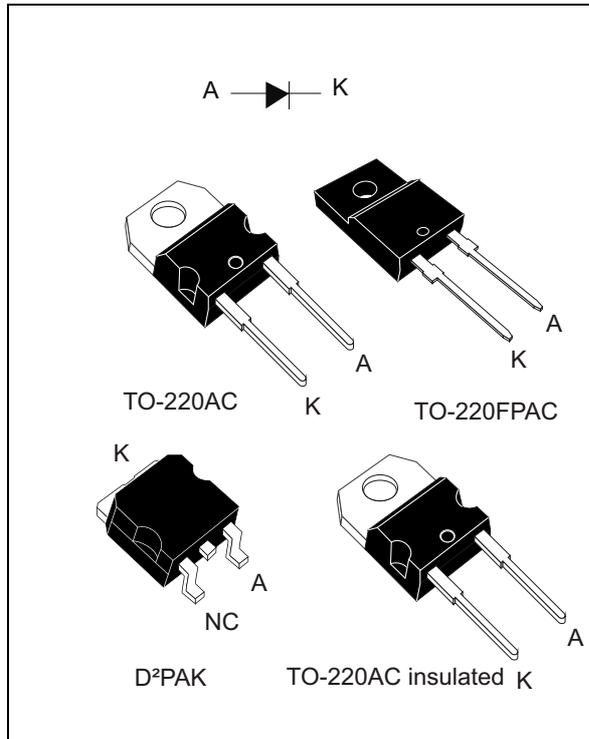


Turbo 2 ultrafast high voltage rectifier

Datasheet - production data



Description

The STTH8R06, which uses ST Turbo 2 600 V technology, is specially suited as boost diode in continuous mode power factor corrections and hard switching conditions.

Table 1. Device summary

| Symbol | Value |
|----------------|--------|
| $I_{F(AV)}$ | 8 A |
| V_{RRM} | 600 V |
| I_{RM} (typ) | 5.5 A |
| T_j (max) | 175 °C |
| V_F (typ) | 1.4 V |
| t_{rr} (max) | 25 ns |

Features

- Ultrafast switching
- Low reverse recovery current
- Low thermal resistance
- Reduces switching losses
- Package insulation voltage:
 - TO-220AC Ins: 2500 V_{RMS} sine
 - TO-220FPAC: 2000 V_{RMS} sine