

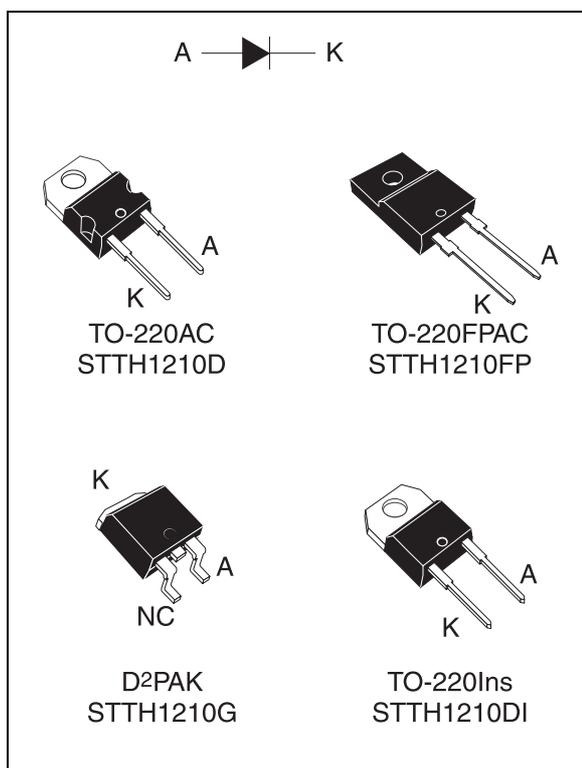
Ultrafast recovery - high voltage diode

Main product characteristics

$I_{F(AV)}$	12 A
V_{RRM}	1000 V
T_j	175° C
V_F (typ)	1.30 V
t_{rr} (typ)	48 ns

Features and benefits

- Ultrafast, soft recovery
- Very low conduction and switching losses
- High frequency and/or high pulsed current operation
- High reverse voltage capability
- High junction temperature
- Insulated packages:
 - TO-220Ins
Electrical insulation = 2500 V_{RMS}
Capacitance = 7 pF
 - TO-220FPAC
Electrical insulation = 2500 V_{RMS}
Capacitance = 12 pF



Description

The high quality design of this diode has produced a device with low leakage current, regularly reproducible characteristics and intrinsic ruggedness. These characteristics make it ideal for heavy duty applications that demand long term reliability.

Such demanding applications include industrial power supplies, motor control, and similar mission-critical systems that require rectification and freewheeling. These diodes also fit into auxiliary functions such as snubber, bootstrap, and demagnetization applications.

The improved performance in low leakage current, and therefore thermal runaway guard band, is an immediate competitive advantage for this device.

Order codes

Part Number	Marking
STTH1210D	STTH1210D
STTH1210G	STTH1210G
STTH1210G-TR	STTH1210G
STTH1210FP	STTH1210FP
STTH1210DI	STTH1210DI