

Excellent Integrated System Limited

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STMicroelectronics STTH8BC060D

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Distributor of STMicroelectronics: Excellent Integrated System Limited Datasheet of STTH8BC060D - DIODE GEN PURP 600V 8A TO220AC Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



STTH8BC060

600 V high voltage rectifier for BC² topology

Data brief

Features

- optimized diode for BC² topology (ST patent)
- Iow conduction losses
- improves efficiency by up to 2.5% compared to conventional continuous mode PFC using standard ultrafast 600 V PN diodes
- performance efficiency improved by up to 0.5% compared with 600 V Schottky power diodes with no reverse recovery charges used in CCM PFC at 200 kHz
- helps meet the 80+ efficiency requirements
- supports PFC working up to 300 kHz
- suitable for PFC up to 2 kW
- compatible with standard PFC controller ICs

Description

The STTH8BC060 is a specific rectification diode used in continuous mode power factor correction working in the BC^2 topology. This diode has been especially designed for the dedicated BC^2 topology. Therefore, its electrical characteristics offer the best possible efficiency with a P-N optimized structured diode. As a result, SMPS efficiency growth of up to 2.5% can be produced compared with standard ultrafast 600 V P-N diode.

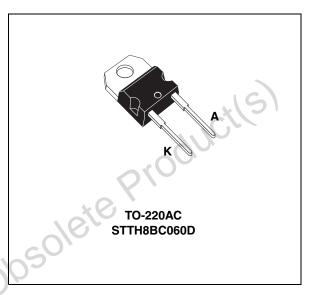


Table 1.Device summary

Symbol	Value
I _{F(AV)}	8 A
V _{RRM}	600 V



Ordering information

STTH8BC060

57

1 Ordering information

Table 2. Ordering information

Order code	Marking	Package	Weight	Base qty	Delivery mode
STTH8BC060D	STTH8BC060D	TO-220AC	1.86 g	50	Tube

2 Revision history

	Date	Revision	Changes
	05-Nov-2010	1	Initial release.
			010
			obsoleter
			i o to
			-1050
		4	
		×	51
		ctl	51
		duct	51
	010	duct	51
	Pro	duct	51
	Pro	duct	51
	stepro	duct	31
	stepro	duct	51
SOlf	stepro	duct	31
psolf	stepro	duct	31



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STTH8BC060

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