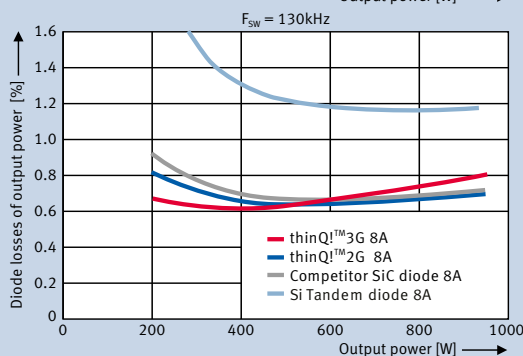
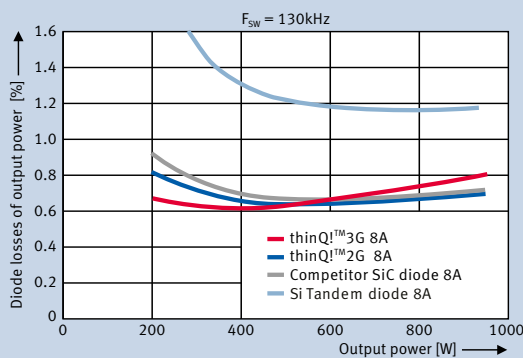


Third Generation thinQ!TM Silicon Carbide Schottky Diodes

Making Improved Efficiency now More Affordable

The new third generation of Infineon SiC Schottky diodes features the industry's lowest device capacitance for any given current rating, which further enhances overall system efficiency, especially at higher switching frequencies and under low load conditions. Together with the third generation, Infineon adds a new package to the already available TO-220 and D²PAK: the DPAK. The small form factor of the DPAK makes it particularly interesting for high power density surface mount designs, and its introduction further extends the Infineon offer of products in order to account at best for the different customer needs.



Features

- Lowest switching losses due to lowest Q_c for any current rating in the market
- Fully surge-current stable, high reliability and ruggedness
- Lower cost

Benefits


- System efficiency improvements at light & medium load
- Enabling higher frequency designs and increased power density solutions
- Lower system costs due to reduced cooling requirements
- Broadest range of current ratings and lower costs/Amp. for cost-effective performance improvements


Applications

- SMPS e.g. CCM PFC
- LCD, PDP
- Lighting
- UPS, Solar applications
- Motor Drives

Third Generation thinQ!TM Silicon Carbide Schottky Diodes

Product Portfolio

	Voltage	I_F [A]	Q_C (typ.) [nC]	I_{FSM} [A]	Type	Status
TO-252 DPAK 	600V	3	3.2	11.5	IDD03SG60C	in production
		4	4.5	18.0	IDD04SG60C	
		5	6.0	26.0	IDD05SG60C	
		6	8.0	32.0	IDD06SG60C	
		8	12.0	42.0	IDD08SG60C	
		9	15.0	49.0	IDD09SG60C	
		10	16.0	51.0	IDD10SG60C	
		12	19.0	59.0	IDD12SG60C	

	Voltage	I_F [A]	Q_C (typ.) [nC]	I_{FSM} [A]	Type	Status
TO-220 real2pin 	600V	3	3.2	11.5	IDH03SG60C	in production
		4	4.5	18.0	IDH04SG60C	
		5	6.0	26.0	IDH05SG60C	
		6	8.0	32.0	IDH06SG60C	
		8	12.0	42.0	IDH08SG60C	
		9	15.0	49.0	IDH09SG60C	
		10	16.0	51.0	IDH10SG60C	
		12	19.0	59.0	IDH12SG60C	

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[BAS16E6433HTMA1](#) [BAT 54-02LRH E6327](#) [NSR05F40QNXT5G](#) [NTE555](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SB1003M3-TL-W](#) [SK310-T](#)
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