

EmCon™ Diodes

The answer to your SMPS, PFC
and Fast Rectifier Application



Industrial Electronics



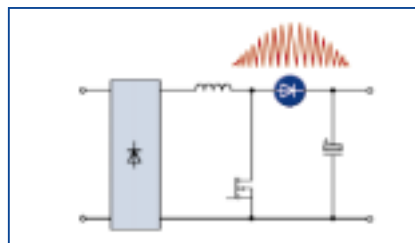
Never stop thinking.

Our EmCon™ Diode Program

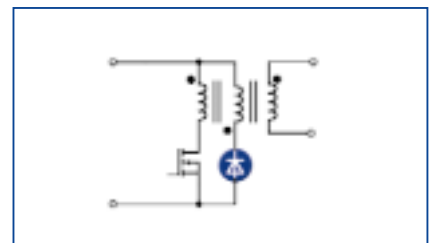
Continuous current at $T_c=100^\circ\text{C}$	Continuous current at $T_c=25^\circ\text{C}$	TO 252 SMD D-Pack	TO 220	TO 263 SMD D ² -Pack
				
600 Volt				
3 A	7 A	IDD 03 E 060	–	–
6 A	11 A	IDD 06 E 060	IDP 06 E 060	IDB 06 E 060
9 A	15 A	IDD 09 E 060	IDP 09 E 060	IDB 09 E 060
15 A	25 A	IDD 15 E 060	IDP 15 E 060	IDB 15 E 060
23 A	33 A	IDD 23 E 060	IDP 23 E 060	IDB 23 E 060
30 A	41 A	–	IDP 30 E 060	IDB 30 E 060
45 A	62 A	–	IDP 45 E 060	IDB 45 E 060
1200 Volt				
4 A	10 A	–	IDP 04 E 120	IDB 04 E 120
9 A	21 A	–	IDP 09 E 120	IDB 09 E 120
12 A	28 A	–	IDP 12 E 120	IDB 12 E 120
18 A	36 A	–	IDP 18 E 120	IDB 18 E 120
30 A	54 A	–	IDP 30 E 120	IDB 30 E 120

Data sheets: www.infineon.com/products

Focus & Innovative Applications



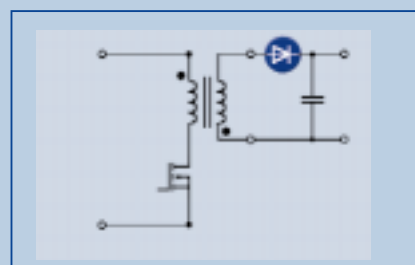
Power Factor Correction for SMPS discontinuous current mode



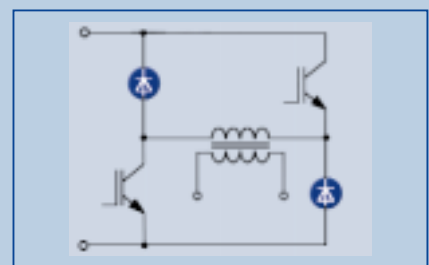
Clamp Diode for Single Transistor Forward Converter

EmCon™ technology features

- 50 % lower Q_{rr} than previous generation, down to 0.4 μC
- Strong V_f reduction up to 20 % compared to previous generation down to 1.35 V
- Improved overall performance



Fast Rectifier for CTV & Monitors



Free Wheeling Diode Welding Machines

Additional application fields: **Fast Rectifier Diode for Flyback Converter, Drives, UPS and Inductive Heating.**