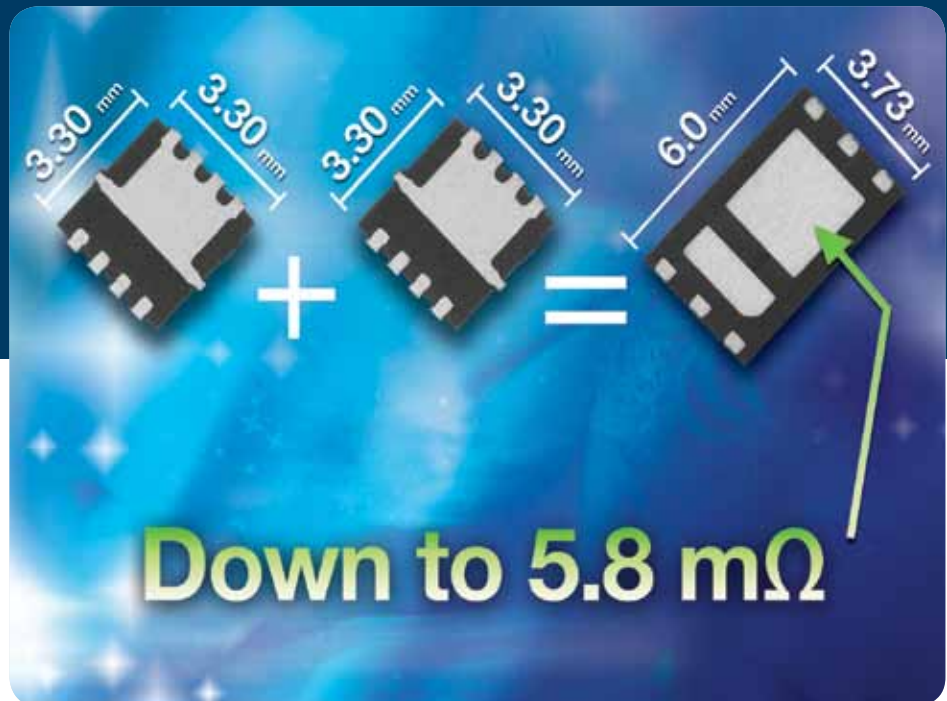




POWER MOSFETs

PowerPAIR™



Co-packaged MOSFETs reduce space, deliver performance comparable to two discretes

KEY BENEFITS

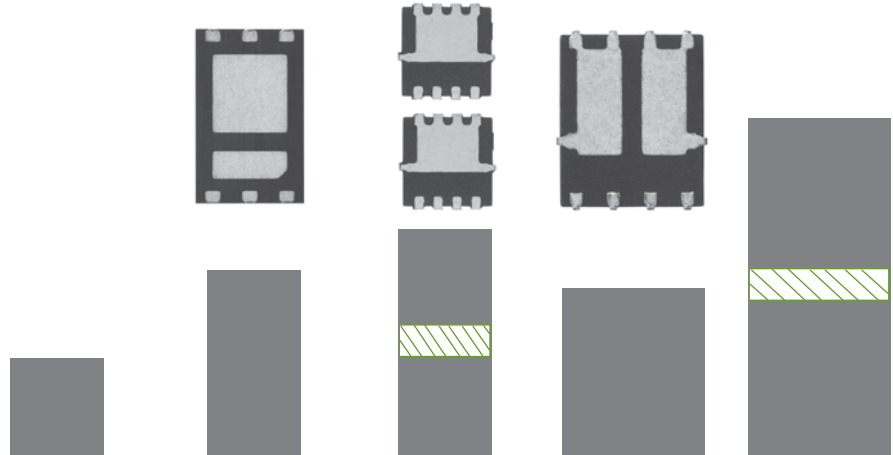
- High- and low-side MOSFETs in one compact 6-mm x 3.7-mm package
 - On-resistance down to 5.8 mΩ
 - Maximum current up to > 17 A
- Lowers solution space and cost compared to two discrete MOSFETs, saving clearance and labeling space
- Simplifies layout
- Reduces parasitic inductance from PCB traces, increasing efficiency and reducing ringing

APPLICATIONS

- System power, POL, low-current dc-to-dc, and synchronous buck in notebooks
- VRMs
- Power modules
- Graphics cards
- Servers
- Gaming consoles

PowerPAIR™

PowerPAIR™ COMPARISON



PowerPAIR™ COMPARISON					
	PowerPAK® 1212-8 dual	PowerPAIR	2 PowerPAK 1212-8 singles	PowerPAK SO-8 dual	2 PowerPAK SO-8 singles
Approximate size (mm ²)	11	22	22 + spacing	30	60 + spacing
Approximate lowest max on-resistance (mΩ)	> 10	6	5	< 5	2
Approximate highest max current (A) T _A = 25 °C	10	17	22	21	47
Approximate highest max current (A) T _A = 70 °C	8	14	17	17	37
Reference	Si7232DN	SiZ700DT	Si7108DN	Si7236DP	SiR440DP, SiR866DP

PARAMETRIC DATA							
CHANNEL	V _{DS}	V _{GS}	R _{DS(ON)} @ 10 V	R _{DS(ON)} @ 4.5 V	Q _g (typ)	I _D @ T _A = 25 °C	I _D @ T _A = 70 °C
1	20 V	± 16 V	8.6 mΩ	10.8 mΩ	9.5 nC	13.1 A	10.5 A
2	20 V	± 16 V	5.8 mΩ	6.6 mΩ	27 nC	17.3 A	13.9A

Latest list of datasheets and related documents available at <http://www.vishay.com/ppg?69090>

DISCLAIMER All product specifications and data are subject to change without notice. Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product. Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications. Product names and markings noted herein may be trademarks of their respective owners.