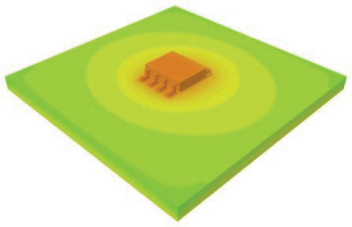
LFPAK56D the ultimate dual MOSFET

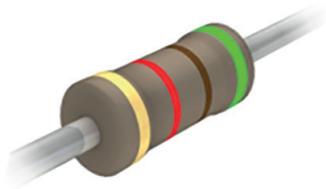
Perfect for saving space, the LFPAK56D packs two MOSFETs into a single package using NXP's cutting edge copper clip technology. The LFPAK56D delivers best-in-class performance.

THERMAL PERFORMANCE

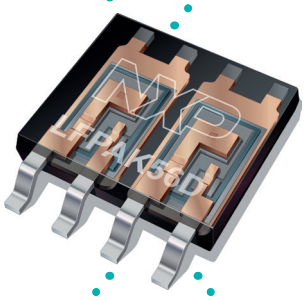


- Copper clip technology
- High power density
- Small footprint

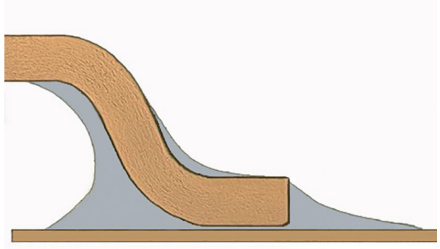
ULTRA LOW ON-RESISTANCE



- 5.8mΩ @40V
- No internal wire bonds
- Best-in-class performance

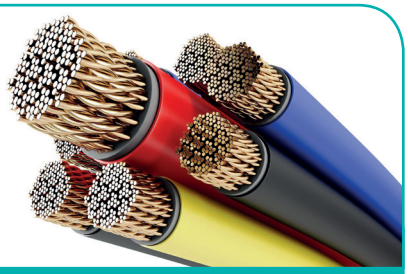


RELIABLE & MANUFACTURABLE



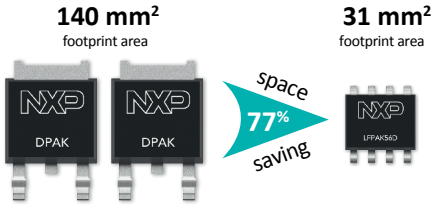
- High board level reliability
- Easy optical inspection
- Robust solder joints

HIGH CURRENT RATING



- Up to 40 A current rating
- High transient robustness
- Best-in-class performance

LFPAK56D FOOTPRINT COMPARISON



LFPAK56D product range

Type number	V_{DS} [max] (V)	R_{DSon} [max] @ V_{GS} = 10 V (mΩ)	R_{DSon} [max] @ V_{GS} = 5 V (mΩ)	I_D [max] (A)	$R_{th(j-mb)}$ [max] (K/W)
BUK9K5R1-30E	30	4.4	5.3	40	2.21
BUK7K5R1-30E	30	5.1		40	2.21
BUK9K5R6-30E	30	4.7	5.8	40	2.36
BUK7K5R6-30E	30	5.6		40	2.36
BUK9K6R2-40E	40	6	6.2	40	2.21
BUK7K6R2-40E	40	5.8		40	2.21
BUK9K6R8-40E	40	6.1	7.2	40	2.36
BUK7K6R8-40E	40	6.8		40	2.36
BUK9K8R7-40E	40	8	9.4	30	2.84
BUK7K8R7-40E	40	8.5		30	2.84
BUK9K18-40E	40	16	19.5	30	3.96
BUK7K18-40E	40	19		24.2	3.96
BUK9K25-40E	40	24	29	18.2	4.68
BUK7K25-40E	40	25		27	4.68
BUK9K12-60E	60	10.7	11.5	35	2.21
BUK7K12-60E	60	9.3		40	2.21
BUK9K13-60E	60	11.2	12.5	40	2.36
BUK7K13-60E	60	10		40	2.36
BUK9K17-60E	60	15.6	17	26	2.84
BUK7K17-60E	60	14		30	2.84
BUK9K35-60E	60	32	35	22	3.96
BUK7K35-60E	60	30		20.7	3.96
BUK9K52-60E	60	49	55	16	4.68
BUK7K52-60E	60	45		15.4	4.68
BUK9K29-100E	100	27	29	30	2.21
BUK7K29-100E	100	24.5		29.5	2.21
BUK9K32-100E	100	31	33	26	2.36
BUK7K32-100E	100	27.5		29	2.36
BUK9K45-100E	100	42	45	21	2.84
BUK7K45-100E	100	37.6		21.4	2.84
BUK9K89-100E	100	85	89	12.5	3.96
BUK7K89-100E	100	82.5		13	3.96
BUK9K134-100E	100	154	159	8.5	4.68
BUK7K134-100E	100	121		9.8	4.68

www.nxp.com

© 2015 NXP Semiconductors N.V.
All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent- or other industrial or intellectual property rights.

Date of release: October 2015
Document order number: 9397 750 17688
Printed in the Netherlands