

## Important notice

Dear Customer,

On 7 February 2017 the former NXP Standard Product business became a new company with the tradename **Nexperia**. Nexperia is an industry leading supplier of Discrete, Logic and PowerMOS semiconductors with its focus on the automotive, industrial, computing, consumer and wearable application markets

In data sheets and application notes which still contain NXP or Philips Semiconductors references, use the references to Nexperia, as shown below.

Instead of <http://www.nxp.com>, <http://www.philips.com/> or <http://www.semiconductors.philips.com/>, use <http://www.nexperia.com>

Instead of [sales.addresses@www.nxp.com](mailto:sales.addresses@www.nxp.com) or [sales.addresses@www.semiconductors.philips.com](mailto:sales.addresses@www.semiconductors.philips.com), use [salesaddresses@nexperia.com](mailto:salesaddresses@nexperia.com) (email)

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Should be replaced with:

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If you have any questions related to the data sheet, please contact our nearest sales office via e-mail or telephone (details via [salesaddresses@nexperia.com](mailto:salesaddresses@nexperia.com)). Thank you for your cooperation and understanding,

Kind regards,

Team Nexperia

## SPICE thermal model

BUK9M53-60E

| Symbol         | Parameter   | Conditions | Min | Typ | Max  | Unit |
|----------------|---|------------|-----|-----|------|------|
| $R_{th(j-mb)}$ | thermal resistance from junction to mounting base |            | -   | -   | 4.17 | K/W  |

|           |                    |
|-----------|--------------------|
| $C_{th1}$ | 9.782E-06 F        |
| $C_{th2}$ | 9.797E-05 F        |
| $C_{th3}$ | 5.849E-05 F        |
| $C_{th4}$ | 1.642E-03 F        |
| $C_{th5}$ | 4.431E-04 F        |
| $C_{th6}$ | 4.924E-03 F        |
| $C_{th7}$ | 7.792E-02 F        |
| $C_{th8}$ | 6.763E+01 F        |
| $R_{th1}$ | 6.862E-03 $\Omega$ |
| $R_{th2}$ | 1.289E-02 $\Omega$ |
| $R_{th3}$ | 1.003E-01 $\Omega$ |
| $R_{th4}$ | 7.651E-02 $\Omega$ |
| $R_{th5}$ | 1.956E+00 $\Omega$ |
| $R_{th6}$ | 1.631E+00 $\Omega$ |
| $R_{th7}$ | 3.775E-01 $\Omega$ |
| $R_{th8}$ | 5.465E-03 $\Omega$ |



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Part: BUK9M53-60E  
 Date: 3/3/2016  
 Model Rth 4.17 K/W