

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.nxp.com, http://www.nexperia.com, http://www.nexperia.com)

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

Replace the copyright notice at the bottom of each page or elsewhere in the document, depending on the version, as shown below:

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Should be replaced with:

- © Nexperia B.V. (year). All rights reserved.

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**). Thank you for your cooperation and understanding,

Kind regards,

Team Nexperia



Thermal RC network (Foster)

BUK9K45-100E

SPICE thermal model

2.695E-05 F

1.471E-04 F

2.047E-04 F

9.149E-04 F

3.724E-03 F

R _{th(j-mb)} thermal resistance - 2.84	K/W
from junction to	
mounting base	

4.432E-03 F Cth₆ Cth₇ 1.513E-01 F Rth₁ $3.337E-03 \Omega$ Rth₂ 7.854E-03 Ω Rth₃ 4.778E-02 Ω Rth₄ 1.011E-01 Ω Rth₅ 3.141E-01 Ω Rth₆ 1.966E+00 Ω 4.039E-01 Ω Rth₇

Cth₁

 Cth_2

Cth₃

Cth₄

Cth₅

Part: BUK9K45-100E

Date: 20/3/2013

Rth 2.84 K/W

