

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:

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

Kind regards,

Team Nexperia



Thermal RC network (Foster)

Rth8 =

t_{amb}

Cth₈

001aal768

SPICE thermal model

BUK7M10-40E Unit

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
₹ _{th(j-mb)}	thermal resistance from junction to mounting base		-	-	2.44	K/W
	Cth₁	2.010E-05 F		A		
	Cth ₂	1.708E-04 F			<u>[j</u>	
	Cth ₃	1.888E-04 F				
	Cth ₄	7.066E-03 F			Rth ₁ Lct	
	Cth ₅	1.019E-03 F			」Rth1 十 Ctl	11
	Cth ₆	9.129E-03 F			_	
	Cth ₇	9.134E-02 F			5	
	Cth ₈	2.243E+02 F			Rth ₂ = Ctl	12
				L		
	Rth ₁	4.007E-03 Ω				
	Rth ₂	6.986E-03 Ω		Г	¹ թ.թ. ⊥ .ս	
	Rth ₃	4.049E-02 Ω		L	JRth3 † Ctl	13
	Rth ₄	1.746E-02 Ω				
	Rth ₅	1.084E+00 Ω			ς • Τ	
	Rth ₆	1.072E+00 Ω			Rth4 + Ctl	14
	Rth ₇	2.058E-01 Ω				-
	Rth ₈	4.457E-03 Ω	((P)		
				\mathcal{T}	٦ ــــــــــــــــــــــــــــــــــ	
				L	JRth5 † Ctl	ո5
						
					5	
					Rth6 + Ctl	16
				<u> </u>		-
				г	<u> </u>	
					Rth7 = Ctl	17

www.nxp.com

Part:

Model Rth

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BUK7M10-40E

3/3/2016

2.44

K/W