

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)

SPICE thermal model

BUK9K5R1-30E

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R _{th(j-mb)}	thermal resistance from junction to mounting base		-	-	2.21	K/W
	Cth ₁	3.976E-05 F		Ŷ \$		
	Cth ₂	2.164E-04 F	1		\neg	
	Cth ₃	3.017E-04 F		4	 -	
	Cth ₄	1.378E-03 F			tth1 = Cth1	
	Cth ₅	5.688E-03 F		닌		
	Cth ₆	6.507E-03 F		_		
	Cth ₇	1.055E-01 F		ή_	<u></u>	
					ttn2 = Cth2	
				工	┩—	
	Rth ₁	2.295E-03 Ω		4		
	Rth ₂	5.374E-03 Ω			tth3 📥 Cth3	
	Rth ₃	3.333E-02 Ω		Ų	, T	
	Rth ₄	6.878E-02 Ω				
	Rth ₅	2.139E-01 Ω		ή_		
	Rth ₆	1.358E+00 Ω			tth4 = Cth4	
	Rth ₇	5.236E-01 Ω	(F	, L	-	
			(,	フ _ケ		
					ths +Cths	
				Ų		
				ή_		
					tithe = Cth6	
				닌	-	
					-	
				Пв	tth7 📥 Cth7	
				Π.		
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Part:	BUK9K5R1-30E					
Date:	20/3/2013					
Rth	2.21 K/W	1	l	- • -		
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