

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)

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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

BUK7K29-100E

Parameter	Conditions	Min	Тур	Max	Unit
thermal resistance from junction to mounting base		-	-	2.21	K/W
Cth ₁	3.976E-05 F		Ŷ t		
Cth ₂	2.164E-04 F	1		\neg	
Cth ₃	3.017E-04 F				
Cth ₄	1.378E-03 F			tth1 ± Cth1	
Cth ₅	5.688E-03 F		ļ	_ T'	
Cth ₆	6.507E-03 F				
Cth ₇	1.055E-01 F		Ů₽	tth2 = Cth2	
Rth₁	2.295E-03 Ω				
			一		
				tung = Cth3	
			_ ~~	-	
Rth ₅	2.139Ε-01 Ω				
Rth ₆	1.358E+00 Ω			ttha 📥 Ctha	
Rth ₇	5.236E-01 Ω	لے	L Y		
		(F	·) _		
				Cth ₅	
			[F	Cth ₆	
			[F	cth7	
BUK7K29-100E					
20/3/2013					
2.21 K/W		l	t		
			. Ann	טו	
	thermal resistance from junction to mounting base Cth ₁ Cth ₂ Cth ₃ Cth ₄ Cth ₅ Cth ₆ Cth ₇ Rth ₁ Rth ₂ Rth ₃ Rth ₄ Rth ₅ Rth ₆ Rth ₇	thermal resistance from junction to mounting base Cth ₁ 3.976E-05 F Cth ₂ 2.164E-04 F Cth ₃ 3.017E-04 F Cth ₄ 1.378E-03 F Cth ₅ 5.688E-03 F Cth ₆ 6.507E-03 F Cth ₇ 1.055E-01 F Rth ₁ 2.295E-03 Ω Rth ₂ 5.374E-03 Ω Rth ₃ 3.333E-02 Ω Rth ₄ 6.878E-02 Ω Rth ₅ 2.139E-01 Ω Rth ₆ 1.358E+00 Ω Rth ₇ 5.236E-01 Ω	thermal resistance from junction to mounting base Cth 1	thermal resistance from junction to mounting base Cth ₁ 3.976E-05 F Cth ₂ 2.164E-04 F Cth ₃ 3.017E-04 F Cth ₄ 1.378E-03 F Cth ₆ 5.688E-03 F Cth ₆ 6.507E-03 F Cth ₇ 1.055E-01 F Rth ₁ 2.295E-03 Ω Rth ₃ 3.333E-02 Ω Rth ₄ 6.878E-02 Ω Rth ₆ 1.358E+00 Ω Rth ₇ 5.236E-01 Ω Rth ₇ 5.236E-01 Ω	thermal resistance from junction to mounting base Cth 3.976E-05 F Cth 2.164E-04 F Cth 3.017E-04 F Cth 4.1.378E-03 F Cth 5.688E-03 F Cth 6.507E-03 F Cth 1.055E-01 F Rth 2.295E-03 Ω Rth 2.3374E-03 Ω Rth 6.876E-02 Ω Rth 6.876E-02 Ω Rth 1.358E+00 Ω Rth 1.358E+00 Ω Rth 5.236E-01 Ω Rth 5.236E-01 Ω