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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**

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
th(j-mb)	thermal resistance from junction to mounting base		-	-	0.65	K/W
	Cth <sub>1</sub>	1.572E-04 F		Ŷ	tj	
	Cth <sub>2</sub>	1.124E-03 F		<b>\</b>	<u> </u>	
	Cth <sub>3</sub>	8.462E-04 F			<u> </u>	
	Cth <sub>4</sub>	3.272E-03 F				1
	Cth <sub>5</sub>	1.019E-02 F		L		•
	Cth <sub>6</sub>	2.118E-02 F				
	Cth <sub>7</sub>	5.698E-01 F		ſ		
	Cth <sub>8</sub>	1.813E+02 F			$\int Rth_2 + Cth_2$	2
	Rth₁	5.654E-04 Ω				
	Rth <sub>2</sub>	1.114E-03 Ω		Г	<b>-</b>	
	Rth <sub>3</sub>	1.315E-02 Ω			Rth3 = Cth;	3
	Rth <sub>4</sub>	3.159E-02 Ω		L L	┎╧╺╋╼╌╴┥	
	Rth₅	1.138E-01 Ω			┎─╺┝──┐	
	Rth <sub>6</sub>	3.999E-01 Ω				4
	Rth <sub>7</sub>	9.381E-02 Ω		L l		+
	Rth <sub>8</sub>	1.005E-03 Ω	(	(P)		
					Rth5 + Cth	5
						3
				L		
					Rth7 Cth	7
				L		
Part:	BUK9E3R2-40E				Rtha Ctha	3
ate:	11/4/2013				╧╺╧	
tth	0.65 K/W					
				$\downarrow$	t <sub>amb</sub>	
				v	001aal768	8

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