# ne<mark>x</mark>peria

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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
R <sub>th(j-mb)</sub>	thermal resistance from junction to mounting base		-	-	1.56	K/W
	Cth <sub>1</sub>	4.740E-05 F		<del></del> 수	tj	
	Cth <sub>2</sub>	3.573E-04 F		<b>↓</b>	<u>۲</u>	
	Cth <sub>3</sub>	2.573E-04 F			<b>└─</b> ┿──┘	
	Cth <sub>4</sub>	9.872E-04 F				
	Cth <sub>5</sub>	2.798E-03 F		L	· _ · · · · · · · ·	
	Cth <sub>6</sub>	7.463E-03 F				
	Cth <sub>7</sub>	2.715E-01 F		Г	$\begin{bmatrix} \bullet & \bullet \end{bmatrix}$	
	Cth <sub>8</sub>	3.781E+01 F			$\int Rth_2 + Cth_2$	2
	Rth₁	1.715E-03 Ω				
	Rth <sub>2</sub>	3.454E-03 Ω		Г	$\begin{bmatrix} \bullet & \bullet \\ \bullet & \bullet \end{bmatrix}$	
	Rth <sub>3</sub>	3.886E-02 Ω			Rth3 🕇 Cth3	}
	Rth <sub>4</sub>	1.014E-01 Ω		L	╧╺	
	Rth₅	3.814E-01 Ω			<b>_</b>	
	Rth <sub>6</sub>	8.981E-01 Ω				
	Rth <sub>7</sub>	1.681E-01 Ω				ŀ
	Rth <sub>8</sub>	5.350E-03 Ω	(	(P)		
				$\checkmark$	$\neg \neg \neg$	
					Rth5 + Cth5	5
				Г		
					Rth6 Cthe	;
					┎┷╋┷┯┓	
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Part:	BUK758R3-40E			[		
					$\begin{bmatrix} Rth_8 \\ + \end{bmatrix} Cth_8 $	5
Date:	17/4/2013					
Model Rth	1.60 K/W			· •	] tt	
				$\triangleleft$	t <sub>amb</sub>	5
					001aal768	,

#### www.nxp.com

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