

## Thermal RC network (Foster)

## **SPICE thermal model**

BUK7Y9R9-80E

Parameter	Conditions	Min	Тур	Max	Unit
thermal resistance from junction to mounting base		-	-	0.77	K/W
Cth <sub>1</sub>	6.162E-05 F		Ŷ to		
Cth <sub>2</sub>	4.070E-04 F	1	1 7	$\neg$	
Cth <sub>3</sub>	4.396E-04 F		4	<del></del>	
Cth <sub>4</sub>	3.634E-03 F			tth1 ± Cth1	
Cth <sub>5</sub>	6.243E-03 F		Ų		
Cth <sub>6</sub>	1.557E-02 F				
Cth <sub>7</sub>	1.939E-01 F		Ŭ₽	tth2 Cth2	
Pth.	1 350E-03 O				
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			Į <sub>F</sub>	ths = Cth5	
				the Cthe	
			Ų.	Calls	
			Į.	tth7 Cth7	
BUK7Y9R9-80E					
25/1/2013					
		l	4		
				nb	
			*		
	from junction to mounting base  Cth <sub>1</sub> Cth <sub>2</sub> Cth <sub>3</sub> Cth <sub>4</sub> Cth <sub>5</sub> Cth <sub>6</sub> Cth <sub>7</sub> Rth <sub>1</sub> Rth <sub>2</sub> Rth <sub>3</sub> Rth <sub>4</sub> Rth <sub>5</sub> Rth <sub>6</sub> Rth <sub>7</sub>	from junction to mounting base  Cth <sub>1</sub> 6.162E-05 F Cth <sub>2</sub> 4.070E-04 F Cth <sub>3</sub> 4.396E-04 F Cth <sub>4</sub> 3.634E-03 F Cth <sub>5</sub> 6.243E-03 F Cth <sub>6</sub> 1.557E-02 F Cth <sub>7</sub> 1.939E-01 F  Rth <sub>1</sub> 1.359E-03 Ω Rth <sub>2</sub> 2.443E-03 Ω Rth <sub>3</sub> 1.954E-02 Ω Rth <sub>4</sub> 2.996E-02 Ω Rth <sub>5</sub> 1.383E-01 Ω Rth <sub>6</sub> 5.185E-01 Ω Rth <sub>7</sub> 6.149E-02 Ω	Cth <sub>1</sub>   6.162E-05 F     Cth <sub>2</sub>   4.070E-04 F     Cth <sub>3</sub>   4.396E-04 F     Cth <sub>4</sub>   3.634E-03 F     Cth <sub>5</sub>   6.243E-03 F     Cth <sub>6</sub>   1.557E-02 F     Cth <sub>7</sub>   1.939E-01 F      Rth <sub>1</sub>   1.359E-03 Ω     Rth <sub>2</sub>   2.443E-03 Ω     Rth <sub>3</sub>   1.954E-02 Ω     Rth <sub>4</sub>   2.996E-02 Ω     Rth <sub>6</sub>   5.185E-01 Ω     Rth <sub>7</sub>   6.149E-02 Ω      Rth <sub>7</sub>   6.149E-02 Ω      Feature     Feature     Feature     Feature     Feature     Cth <sub>3</sub>   4.396E-04 F     Cth <sub>4</sub>   1.359E-03 Ω     Rth <sub>7</sub>   6.149E-02 Ω     Feature     Feature     Feature     Feature     Feature     Cth <sub>3</sub>   4.396E-04 F     Cth <sub>4</sub>   3.634E-03 F     Cth <sub>4</sub>   1.359E-03 Ω     Rth <sub>7</sub>   6.149E-02 Ω     Feature     Fea	Cth,   6.162E-05 F   Cth <sub>2</sub>   4.070E-04 F   Cth <sub>3</sub>   4.396E-04 F   Cth <sub>4</sub>   3.634E-03 F   Cth <sub>5</sub>   6.243E-03 F   Cth <sub>6</sub>   1.557E-02 F   Cth <sub>7</sub>   1.939E-01 F   F   F   F   F   F   F   F   F   F	Cith   6.162E-05 F     Cith   4.070E-04 F     Cith   4.396E-04 F     Cith   3.634E-03 F     Cith   1.557E-02 F     Cith   1.557E-02 F     Cith   1.359E-03 Ω     Rith   2.996E-02 Ω     Rith   2.996E-02 Ω     Rith   5.185E-01 Ω     Rith   6.149E-02 Ω