

## Thermal RC network (Foster)

## **SPICE thermal model**

BUK7514-60E

001aal768

4.740E-05 F 3.573E-04 F 2.573E-04 F 9.872E-04 F 2.798E-03 F 7.463E-03 F 7.463E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 3.814E-01 Ω 8.981E-01 Ω 1.681E-01 Ω 5.350E-03 Ω	Symbol	Parameter	Conditions	Min	Тур	Max	Unit
3.573E-04 F 2.573E-04 F 9.872E-04 F 2.798E-03 F 7.463E-03 F 2.715E-01 F 3.781E+01 F  1.715E-03 Ω 3.454E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 3.814E-01 Ω 1.681E-01 Ω 5.350E-03 Ω	R <sub>th(j-mb)</sub>	thermal resistance from junction to mounting base		-		1.56	
3.573E-04 F 2.573E-04 F 9.872E-04 F 2.798E-03 F 7.463E-03 F 2.715E-01 F 3.781E+01 F  1.715E-03 Ω 3.454E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 3.814E-01 Ω 1.681E-01 Ω 5.350E-03 Ω							
2.573E-04 F 9.872E-04 F 2.798E-03 F 7.463E-03 F 7.463E-03 Γ 3.781E+01 F  1.715E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 8.981E-01 Ω 1.681E-01 Ω 5.350E-03 Ω		Cth <sub>1</sub>	4.740E-05 F		Ą	•	
9.872E-04 F 2.798E-03 F 7.463E-03 F 7.463E-01 F 3.781E+01 F 1.715E-03 Ω 3.454E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 3.814E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  P  Rth1  Cth1  Rth2  Cth2  Rth3  Cth3  Rth4  Cth4  Rth5  Cth5		Cth <sub>2</sub>	3.573E-04 F			<u>'j</u>	
2.798E-03 F 7.463E-03 F 2.715E-01 F 3.781E+01 F 1.715E-03 Ω 3.454E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 3.814E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  P  Rth1		Cth <sub>3</sub>	2.573E-04 F				
7.463E-03 F 2.715E-01 F 3.781E+01 F  1.715E-03 Ω 3.454E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 8.981E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  Rth3 Cth3  Rth4 Cth4  Rth5 Cth5		Cth <sub>4</sub>	9.872E-04 F			$\int_{Bth_4} \perp_{Cth_4}$	
2.715E-01 F 3.781E+01 F 1.715E-03 Ω 3.454E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 8.981E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  Rth3 Cth3  Rth4 Cth4  Rth5 Cth5		Cth <sub>5</sub>	2.798E-03 F			」`````` <b>`</b>	
3.781E+01 F  1.715E-03 Ω 3.454E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 3.814E-01 Ω 8.981E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  P  Rth3 Cth3  Rth4 Cth4  Rth5 Cth5  Rth6 Cth6		Cth <sub>6</sub>	7.463E-03 F				
1.715E-03 Ω 3.454E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 3.814E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  P  Rth3 Cth3  Rth4 Cth4  Rth5 Cth5  Rth6 Cth6		Cth <sub>7</sub>	2.715E-01 F			<b>└</b>	
3.454E-03 Ω 3.886E-02 Ω 1.014E-01 Ω 3.814E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  Print Cth3  Rth3 Cth3  Rth4 Cth4  Rth5 Cth5  Rth6 Cth6		Cth <sub>8</sub>	3.781E+01 F			Rth2 + Cth2	2
3.886E-02 Ω 1.014E-01 Ω 3.814E-01 Ω 8.981E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  P  Rth3 Cth3  Rth4 Cth4  Rth5 Cth5  Rth6 Cth6		Rth₁	1.715E-03 Ω				
1.014E-01 Ω 3.814E-01 Ω 8.981E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  P  Rth4 Cth4  Rth5 Cth5  Rth7 Cth7		Rth <sub>2</sub>	3.454E-03 Ω		Г	ካ	
3.814E-01 Ω 8.981E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  P  Rth4 Cth4  Rth5 Cth5  Rth7 Cth7		Rth <sub>3</sub>	3.886E-02 Ω			Rth3 Cth3	3
8.981E-01 Ω 1.681E-01 Ω 5.350E-03 Ω  P  Rth4 Cth4  Rth5 Cth5  Rth7 Cth7		Rth <sub>4</sub>	1.014E-01 Ω			┖┿┛	
1.681E-01 Ω 5.350E-03 Ω  P  Rth5 Cth5  Rth7 Cth7		Rth <sub>5</sub>	3.814E-01 Ω		_		
1.681E-01 Ω 5.350E-03 Ω  P  Rth5 Cth5  Rth7 Cth7		Rth <sub>6</sub>	8.981E-01 Ω			$ _{\text{Rth}_4} \perp _{\text{Cth}_2}$	ı
Rth5 Cth6 Rth6 Cth6 Rth7 Cth7		Rth <sub>7</sub>	1.681E-01 Ω			٠ <u>٦ ٣ ٣</u>	·
Rth6 Cth6 Rth7 Cth7 Rth8 Cth8		Rth <sub>8</sub>	5.350E-03 Ω	1	( P )		
Rth7 Cth7						Rth5 + Cth	5
Rth7 Cth7							
Rth8 Cth8						Rth <sub>6</sub> Cth <sub>6</sub>	<b>3</b>
Rth8 Cth8					ſ	5	
						Rth7 Cth7	,
	Part:	BUK7514-60E				Rtha Ctha	ı
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\/ WITH	Model Rth	1.60 K/V	V			t <sub>amb</sub>	