

## Thermal RC network (Foster)

## **SPICE thermal model**

## BUK7E8R3-40E

thermal resistance from junction to mounting base		-	Typ -	1.60	K/W
O4L	4.740E-05 F		<b>夕</b>	4.	
Cth <sub>2</sub>	3.573E-04 F			<u>tj</u>	
Cth <sub>3</sub>	2.573E-04 F				
Cth <sub>4</sub>	9.872E-04 F			$\bigcap_{Rth_4} \perp_{Cth_4}$	
Cth <sub>5</sub>	2.798E-03 F				
Cth <sub>6</sub>	7.463E-03 F				
Cth <sub>7</sub>	2.715E-01 F		Г	5	
Cth <sub>8</sub>	3.781E+01 F			Rth2 + Cth2	
Rth₁	1.715E-03 Ω				
Rth <sub>2</sub>	3.454E-03 Ω		Г	<b>占</b>	
Rth <sub>3</sub>	3.886E-02 Ω			Rth3 = Cth3	
Rth <sub>4</sub>	1.014E-01 Ω				
Rth₅	3.814E-01 Ω		_		
Rth <sub>6</sub>	8.981E-01 Ω			Rtha L Ctha	
Rth <sub>7</sub>	1.681E-01 Ω				
Rth <sub>8</sub>	5.350E-03 Ω	(	( P )		
			$\bigvee$ ,	5	
				Rth5 = Cth5	
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				Detho Lotha	
			l r	5	
				Rth7 = Cth7	
			L	<b>└</b>	
D					
BUK/E8R3-40E				$\bigcap_{Rthe} \perp_{Cthe}$	
11/4/2013				J Touis	
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1.00 17/17				 t <sub>amb</sub>	
			$\Diamond$		1
	$Cth_5$ $Cth_6$ $Cth_7$ $Cth_8$ $Rth_1$ $Rth_2$ $Rth_3$ $Rth_4$ $Rth_5$ $Rth_6$ $Rth_7$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Cth <sub>5</sub> 2.798E-03 F Cth <sub>6</sub> 7.463E-03 F Cth <sub>7</sub> 2.715E-01 F Cth <sub>8</sub> 3.781E+01 F Rth <sub>1</sub> 1.715E-03 Ω Rth <sub>2</sub> 3.454E-03 Ω Rth <sub>3</sub> 3.886E-02 Ω Rth <sub>4</sub> 1.014E-01 Ω Rth <sub>6</sub> 8.981E-01 Ω Rth <sub>7</sub> 1.681E-01 Ω Rth <sub>8</sub> 5.350E-03 Ω	Cth <sub>6</sub> 2.798E-03 F Cth <sub>6</sub> 7.463E-03 F Cth <sub>7</sub> 2.715E-01 F Cth <sub>8</sub> 3.781E+01 F  Rth <sub>1</sub> 1.715E-03 Ω Rth <sub>2</sub> 3.454E-03 Ω Rth <sub>3</sub> 3.886E-02 Ω Rth <sub>4</sub> 1.014E-01 Ω Rth <sub>6</sub> 8.981E-01 Ω Rth <sub>7</sub> 1.681E-01 Ω Rth <sub>8</sub> 5.350E-03 Ω  P  BUK7E8R3-40E  11/4/2013 1.60 KW	Cth <sub>5</sub> 2.798E-03 F Cth <sub>6</sub> 7.463E-03 F Cth <sub>7</sub> 2.715E-01 F Cth <sub>8</sub> 3.781E+01 F Cth <sub>8</sub> 3.454E-03 Ω Rth <sub>2</sub> 3.454E-03 Ω Rth <sub>3</sub> 3.886E-02 Ω Rth <sub>4</sub> 1.014E-01 Ω Rth <sub>6</sub> 8.981E-01 Ω Rth <sub>7</sub> 1.681E-01 Ω Rth <sub>8</sub> 5.350E-03 Ω Rth <sub>8</sub> 5.350E-03 Ω Rth <sub>9</sub> Cth <sub>4</sub> Rth <sub>7</sub> 1.681E-01 Ω Rth <sub>8</sub> 5.350E-03 Ω