

## Thermal RC network (Foster)

## **SPICE thermal model**

BUK7Y19-100E

Parameter thermal resistance from junction to mounting base  Cth <sub>1</sub> Cth <sub>2</sub> Cth <sub>3</sub>	5.189E-05 F	Min -	Typ ·	<b>Max</b> 0.90	Unit K/W
Cth <sub>2</sub>					
Cth <sub>2</sub>					
	2 200E 04 E		Ŷ <b>\$</b>		
Cth <sub>3</sub>	3.399E-04 F	1	1 1	¬	
-	3.893E-04 F		4	<del></del>	
Cth <sub>4</sub>	2.947E-03 F			tth1 #Cth1	
Cth <sub>5</sub>	4.944E-03 F		닏		
Cth <sub>6</sub>	1.408E-02 F				
Cth <sub>7</sub>	1.666E-01 F			tth2 Cth2	
Rth₁	1.612E-03 Ω				
Rth <sub>2</sub>			一	ш	
Rth <sub>3</sub>				umes = Ctha	
			τ_	<b>-</b> ₱──	
Rth <sub>5</sub>	1.806E-01 Ω		4	<del></del>	
				ttha 📥 Ctha	
		لر	L H	. T	
		( F	·)		
				tths = Cth5	
			<u>-</u>		
			U <b>.</b>	The Cths	
			[R	tth7 = Cth7	
RI IK7V10, 100E			工	1	
2010 110-100L					
17/4/2013					
0.90 K/W		l	4 .		
	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>	Cth <sub>7</sub> 1.666E-01 F  Rth <sub>1</sub> 1.612E-03 Ω Rth <sub>2</sub> 3.276E-03 Ω Rth <sub>3</sub> 2.283E-02 Ω Rth <sub>4</sub> 3.326E-02 Ω Rth <sub>5</sub> 1.806E-01 Ω Rth <sub>6</sub> 5.956E-01 Ω Rth <sub>7</sub> 6.723E-02 Ω	Cth <sub>7</sub> 1.666E-01 F  Rth <sub>1</sub> 1.612E-03 Ω Rth <sub>2</sub> 3.276E-03 Ω Rth <sub>3</sub> 2.283E-02 Ω Rth <sub>4</sub> 3.326E-02 Ω Rth <sub>5</sub> 1.806E-01 Ω Rth <sub>6</sub> 5.956E-01 Ω Rth <sub>7</sub> 6.723E-02 Ω	Cth <sub>7</sub> 1.666E-01 F  Rth <sub>1</sub> 1.612E-03 Ω  Rth <sub>2</sub> 3.276E-03 Ω  Rth <sub>3</sub> 2.283E-02 Ω  Rth <sub>4</sub> 3.326E-02 Ω  Rth <sub>5</sub> 1.806E-01 Ω  Rth <sub>6</sub> 5.956E-01 Ω  Rth <sub>7</sub> 6.723E-02 Ω  P  R  BUK7Y19-100E  17/4/2013 0.90 K/W	Cth <sub>7</sub> 1.666E-01 F  Rth <sub>1</sub> 1.612E-03 Ω  Rth <sub>2</sub> 3.276E-03 Ω  Rth <sub>3</sub> 2.283E-02 Ω  Rth <sub>4</sub> 3.326E-02 Ω  Rth <sub>5</sub> 1.806E-01 Ω  Rth <sub>7</sub> 6.723E-02 Ω  Rth <sub>7</sub> 6.723E-02 Ω  Rth <sub>7</sub> Cth <sub>7</sub> Rth <sub>9</sub> Cth <sub>8</sub>