

## Thermal RC network (Foster)

## **SPICE thermal model**

## BUK7K52-60E

Parameter	Conditions	Min	Тур	Max	Unit
thermal resistance from junction to mounting base		-	-	4.68	K/W
Cth <sub>1</sub>	1.267E-05 F		<b>夕</b>	4.	
Cth <sub>2</sub>	6.746E-05 F			<u> </u>	
Cth <sub>3</sub>	9.693E-05 F				
Cth <sub>4</sub>	4.239E-04 F			$\bigcap_{Rth4} \perp_{Ctt}$	
Cth <sub>5</sub>	1.921E-03 F			┙╵┈╵て	רי
Cth <sub>6</sub>	2.081E-03 F				
Cth <sub>7</sub>	7.455E-02 F			<b>←</b>	
Cth <sub>8</sub>	4.773E+00 F			Rth <sub>2</sub> + Ctr	12
Rth <sub>1</sub>	7.020E-03 Ω				
Rth <sub>2</sub>	1.675E-02 Ω			ጎ	
Rth <sub>3</sub>	1.023E-01 Ω			Rth3 TCtr	າვ
Rth <sub>4</sub>	2.229E-01 Ω			┖┿┦	
Rth <sub>5</sub>	6.814E-01 Ω				
Rth <sub>6</sub>	3.349E+00 Ω			$ _{Rth_4} \perp_{Ctt}$	14
Rth <sub>7</sub>	2.648Ε-01 Ω			J'''' <b>'' T</b> ''''	•4
Rth <sub>8</sub>	3.995E-02 Ω	(	(P)		
			$\bigvee$ ,	5	
				Rth5 = Ctr	15
			'		
					_
					16
				<b>←</b>	
				Rth7 + Ctr	17
			l l	<u></u>	-
BUK7K52-60E				<b>՝</b>	
					18
20/3/2013				<b>—</b>	
4.68 K/W			<u> </u>	 • .	
			$\dot{ m \triangle}$		
				001aal76	58
	thermal resistance 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> Cth <sub>8</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> Rth <sub>8</sub>	thermal resistance from junction to mounting base  Cth <sub>1</sub> 1.267E-05 F Cth <sub>2</sub> 6.746E-05 F Cth <sub>3</sub> 9.693E-05 F Cth <sub>4</sub> 4.239E-04 F Cth <sub>5</sub> 1.921E-03 F Cth <sub>6</sub> 2.081E-03 F Cth <sub>7</sub> 7.455E-02 F Cth <sub>8</sub> 4.773E+00 F  Rth <sub>1</sub> 7.020E-03 Ω Rth <sub>2</sub> 1.675E-02 Ω Rth <sub>3</sub> 1.023E-01 Ω Rth <sub>4</sub> 2.229E-01 Ω Rth <sub>6</sub> 3.349E+00 Ω Rth <sub>7</sub> 2.648E-01 Ω Rth <sub>8</sub> 3.995E-02 Ω	thermal resistance from junction to mounting base  Cth <sub>1</sub> 1.267E-05 F Cth <sub>2</sub> 6.746E-05 F Cth <sub>3</sub> 9.693E-05 F Cth <sub>4</sub> 4.239E-04 F Cth <sub>5</sub> 1.921E-03 F Cth <sub>6</sub> 2.081E-03 F Cth <sub>7</sub> 7.455E-02 F Cth <sub>8</sub> 4.773E+00 F  Rth <sub>1</sub> 7.020E-03 Ω Rth <sub>2</sub> 1.675E-02 Ω Rth <sub>3</sub> 1.023E-01 Ω Rth <sub>4</sub> 2.229E-01 Ω Rth <sub>6</sub> 6.814E-01 Ω Rth <sub>6</sub> 3.349E+00 Ω Rth <sub>7</sub> 2.648E-01 Ω Rth <sub>8</sub> 3.995E-02 Ω	thermal resistance from junction to mounting base  Cth <sub>1</sub> 1.267E-05 F Cth <sub>2</sub> 6.746E-05 F Cth <sub>3</sub> 9.693E-05 F Cth <sub>4</sub> 4.239E-04 F Cth <sub>5</sub> 1.921E-03 F Cth <sub>6</sub> 2.081E-03 F Cth <sub>7</sub> 7.455E-02 F Cth <sub>8</sub> 4.773E+00 F  Rth <sub>1</sub> 7.020E-03 Ω Rth <sub>2</sub> 1.675E-02 Ω Rth <sub>3</sub> 1.023E-01 Ω Rth <sub>4</sub> 2.229E-01 Ω Rth <sub>6</sub> 6.814E-01 Ω Rth <sub>6</sub> 3.349E+00 Ω Rth <sub>7</sub> 2.648E-01 Ω Rth <sub>8</sub> 3.995E-02 Ω  P  BUK7K52-60E  20/3/2013 4.68 KW	### thermal resistance from junction to mounting base    Cith