

## Thermal RC network (Foster)

## **SPICE thermal model**

## BUK9K13-60E

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
₹ <sub>th(j-mb)</sub>	thermal resistance from junction to mounting base		-	-	2.36	K/W
	Cth <sub>1</sub>	3.575E-05 F		$\triangle$	1	
	Cth <sub>2</sub>	1.981E-04 F			<u>tj</u>	
	Cth <sub>3</sub>	2.706E-04 F				
	Cth <sub>4</sub>	1.210E-03 F				
	Cth <sub>5</sub>	4.930E-03 F			Rth1 + Cth1	
	Cth <sub>6</sub>	5.951E-03 F				
	Cth <sub>7</sub>	1.357E-01 F			<b></b>	
	Cth <sub>8</sub>	6.011E+01 F			Rth2 + Cth2	
				l l		
	Rth <sub>1</sub>	2.533E-03 Ω				
	Rth <sub>2</sub>	5.928E-03 Ω			<u> </u>	
	Rth <sub>3</sub>	3.577E-02 Ω			Rth3 + Cth3	
	Rth <sub>4</sub>	7.656E-02 Ω			<b>—</b>	
	Rth <sub>5</sub>	2.422E-01 Ω				
	Rth <sub>6</sub>	1.553E+00 Ω			Rth4 + Cth4	
	Rth <sub>7</sub>	4.394E-01 Ω			٠ T ٠ <b>.</b>	
	Rth <sub>8</sub>	3.829E-03 Ω		( P )		
				$\mathcal{L}$	<u>ነ</u> ነ	
					Rth <sub>5</sub> + Cth <sub>5</sub>	
				'		
					Rth <sub>6</sub> + Cth <sub>6</sub>	
				r	5	
					Rth7 = Cth7	
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Part:	BUK9K13-60E				Rth8 + Cth8	
Date:	20/2/2012				┦ <b>```''゜〒</b> └ſſſ8	
Date: Rth	20/3/2013 2.36 K/V	ı/				
IXUI	2.30 N/V	T .			t <sub>amb</sub>	
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