

## Thermal RC network (Foster)

## **SPICE thermal model**

BUK7M45-40E

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
₹ <sub>th(j-mb)</sub>	thermal resistance from junction to mounting base		-	-	4.80	K/W
	Cth <sub>1</sub>	6.427E-06 F		Δ		
	Cth <sub>2</sub>	7.431E-05 F			<u>tj</u>	
	Cth <sub>3</sub>	4.432E-05 F				
	Cth <sub>4</sub>	1.193E-03 F		] [	<b>1</b>	
	Cth <sub>5</sub>	3.891E-04 F			Rth1 + Cth1	
	Cth <sub>6</sub>	4.302E-03 F			<del>└</del> •	
	Cth <sub>7</sub>	2.916E-03 F				
	Cth <sub>8</sub>	1.758E+01 F			Rth <sub>2</sub> + Cth <sub>2</sub>	
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	Rth₁	6.908E-03 Ω				
	Rth <sub>2</sub>	1.926E-02 Ω		l 1	<u>ጎ</u>	
	Rth <sub>3</sub>	1.262E-01 Ω			Rth3 + Cth3	
	Rth <sub>4</sub>	9.094E-02 Ω		'	┖•	
	Rth₅	1.997E+00 Ω				
	Rth <sub>6</sub>	2.197E+00 Ω			Rth4 + Cth4	
	Rth <sub>7</sub>	3.449E-01 Ω				
	Rth <sub>8</sub>	1.685E-02 Ω		( P )		
				$\bigvee$ ,	5	
					Rth <sub>5</sub> = Cth <sub>5</sub>	
				'	<b>└</b>	
					」Rth6	
				١,		
					Rth7 + Cth7	
				l l		
Part:	BUK7M45-40E			] [	1	
					Rth8 + Cth8	
Date:	3/3/2016			'	┖-•	
Model Rth	4.80 K/V	V		<u> </u>		
				$\dot{\uparrow}$	t <sub>amb</sub>	
					001aal768	}