

## Thermal RC network (Foster)

## **SPICE thermal model**

## BUK9M7R2-40E

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R <sub>th(j-mb)</sub>	thermal resistance from junction to mounting base		-	-	1.89	K/W
	Cth <sub>1</sub>	2.419E-05 F		$\triangle$	4	
	Cth <sub>2</sub>	2.167E-04 F			<u>tj</u>	
	Cth <sub>3</sub>	3.323E-04 F				
	Cth <sub>4</sub>	2.213E-03 F				
	Cth <sub>5</sub>	3.420E-03 F			」Rth₁ 井Cth₁	
	Cth <sub>6</sub>	6.196E-03 F				
	Cth <sub>7</sub>	2.541E-02 F				
	Cth <sub>8</sub>	4.000E+01 F			Rth <sub>2</sub> + Cth <sub>2</sub>	2
	Rth₁	2.335E-03 Ω				
	Rth <sub>2</sub>	4.887E-03 Ω			<u>ጎ</u> ነ	
	Rth <sub>3</sub>	2.084E-02 Ω			Rth3 = Cth3	3
	Rth <sub>4</sub>	4.805E-02 Ω		<u>'</u>	┸┿╜	
	Rth <sub>5</sub>	3.344E-01 Ω				
	Rth <sub>6</sub>	1.432E+00 Ω			Rth4 + Cth	1
	Rth <sub>7</sub>	3.993E-02 Ω			J	
	Rth <sub>8</sub>	7.333E-03 Ω	(	( P )		
				$\bigvee$	┧╻,	
					Rth5 + Cth	5
					5	
					Rth6 + Cth6	6
				'		
					Rth7 + Cth7	,
					J T Suit	
Part:	BUK9M7R2-40E				<u> </u>	
					Rth8 = Cth8	3
Date:	3/3/2016			'		
Model Rth	1.89 K/W			<u> </u>		
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					001aal768	3