

## Thermal RC network (Foster)

## **SPICE thermal model**

## BUK764R0-40E

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
th(j-mb)	thermal resistance from junction to mounting base		-	-	0.82	K/W
	Cth <sub>1</sub>	1.128E-04 F		$\triangle$		
	Cth <sub>2</sub>	8.153E-04 F			<u>tj</u>	
	Cth <sub>3</sub>	6.066E-04 F				
	Cth <sub>4</sub>	2.369E-03 F			1 <sub>04</sub> , 1 <sub>04</sub>	
	Cth <sub>5</sub>	6.973E-03 F			」Rth₁ <b>十</b> Cth₁	
	Cth <sub>6</sub>	1.600E-02 F				
	Cth <sub>7</sub>	5.627E-01 F			<del>_</del>	
	Cth <sub>8</sub>	5.931E+01 F			Rth <sub>2</sub> + Cth <sub>2</sub>	2
	Rth <sub>1</sub>	7.791E-04 Ω				
	Rth <sub>2</sub>	1.532E-03 Ω		1 1	<u> </u>	
	Rth <sub>3</sub>	1.801E-02 Ω			Rth3 = Cth	3
	Rth <sub>4</sub>	4.374E-02 Ω		<u> </u>	┸┿╜	
	Rth <sub>5</sub>	1.604E-01 Ω		l .		
	Rth <sub>6</sub>	5.174E-01 Ω			Rth4 + Cth	1
	Rth <sub>7</sub>	9.637E-02 Ω			٠ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	
	Rth <sub>8</sub>	3.222E-03 Ω	(	( P )		
				$\bigvee$ $\prod$	┧_ ゛ ┃	
					Rth5 + Cth	5
				<u> </u>	┖-┿	
				<u> </u>		
					Rth <sub>6</sub> + Cth <sub>6</sub>	:
				l	٦ <b>,</b> ٣ , ٣, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١,	,
					┧ ⊥	
					Rth7 = Cth7	7
				'	<b>—</b>	
Part:	BUK764R0-40E					
					Rth8 + Cth	3
Date:	11/4/2013			l l		•
Model Rth	0.84 K/W			L		
				$\downarrow$	t <sub>amb</sub>	
				V	001aal768	₹