

## Thermal RC network (Foster)

## **SPICE thermal model**

## BUK9E3R7-60E

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$R_{ ext{th(j-mb)}}$	thermal resistance from junction to mounting base		-	-	0.52	K/W
	Cth <sub>1</sub>	2.085E-04 F		<b>夕</b>	4.	
	Cth <sub>2</sub>	1.582E-03 F			<u>tj</u>	
	Cth <sub>3</sub>	1.124E-03 F				
	Cth <sub>4</sub>	4.066E-03 F			Rth <sub>1</sub> + Cth	
	Cth <sub>5</sub>	1.379E-02 F			J'``''' <b>T</b> '''''	1
	Cth <sub>6</sub>	2.696E-02 F				
	Cth <sub>7</sub>	6.892E-01 F			<b></b>	
	Cth <sub>8</sub>	1.806E+02 F			Rth <sub>2</sub> + Cth <sub>2</sub>	2
	Rth <sub>1</sub>	4.200E-04 Ω				
	Rth <sub>2</sub>	8.136E-04 Ω		l r	<u>ጎ</u>	
	Rth <sub>3</sub>	9.132E-03 Ω			Rth3 + Cth	3
	Rth <sub>4</sub>	2.352E-02 Ω		'		
	Rth <sub>5</sub>	8.209E-02 Ω		_		
	Rth <sub>6</sub>	3.277E-01 Ω			Rth4 + Cth	4
	Rth <sub>7</sub>	7.932E-02 Ω				+
	Rth <sub>8</sub>	8.874E-04 Ω	(	(P)		
				$\bigvee$ ,	5	
					Rth5 + Cth	5
				'	┸ <b>┯</b> ┛	
						_
					JRth <sub>6</sub>	3
					Rth7 + Cth	7
				l l	<b>└</b>	
art:	BUK9E3R7-60E				┧ ⊥	
					Rth8 + Cth	3
Date:	11/4/2013					
Rth	0.52 K/W			<u> </u>		
				$\stackrel{\wedge}{T}$	t <sub>amb</sub>	
					001aal76	8