

Thermal RC network (Foster)

SPICE thermal model

BUK7K25-40E

Parameter	Conditions	Min	Тур	Max	Unit
thermal resistance from junction to mounting base		-	-	4.68	K/W
Cth ₁	1.267E-05 F		夕	4.	
Cth ₂	6.746E-05 F			<u> </u>	
Cth ₃	9.693E-05 F				
Cth ₄	4.239E-04 F			$\bigcap_{Rth_4} \perp_{Cth}$	
Cth ₅	1.921E-03 F			┙╵┈╵╶┯╰┉	רי
Cth ₆	2.081E-03 F				
Cth ₇	7.455E-02 F		l r	<u>←</u>	
Cth ₈	4.773E+00 F			Rth ₂ + Cth	2
Rth ₁	7.020E-03 Ω				
Rth ₂	1.675E-02 Ω			┧ ⊥	
Rth ₃	1.023E-01 Ω			Rth3 TCth	3
Rth ₄	2.229E-01 Ω			┖┿┦	
Rth ₅	6.814E-01 Ω				
Rth ₆	3.349Ε+00 Ω			$ _{Rth_{4}} \perp_{Cth}$	14
Rth ₇	2.648Ε-01 Ω			J T 9"	·
Rth ₈	3.995Ε-02 Ω	((P)		
			\bigvee $_{I}$	<u> ነ</u>	
				Rth5 = Cth	5
				┸┯╜	
				$\bigcap_{Rthe} \perp_{Cth}$	
					ю
			l r	5	
				Rth7 = Cth	7
			L	┸—	
B. 11/21/22 - 22					
BUK7K25-40E				$\bigcap_{Rthe} \perp_{Ctt}$	
20/2/2042					שׁוּ
4.00 K/W				tomb	
			\Diamond		. .
				oo raar/ c	,,,
	from junction to mounting base Cth ₁ Cth ₂ Cth ₃ Cth ₄ Cth ₅ Cth ₆ Cth ₇ Cth ₈ Rth ₁ Rth ₂ Rth ₃ Rth ₄ Rth ₅ Rth ₆ Rth ₇ Rth ₈	from junction to mounting base Cth ₁ 1.267E-05 F Cth ₂ 6.746E-05 F Cth ₃ 9.693E-05 F Cth ₄ 4.239E-04 F Cth ₅ 1.921E-03 F Cth ₆ 2.081E-03 F Cth ₇ 7.455E-02 F Cth ₈ 4.773E+00 F Rth ₁ 7.020E-03 Ω Rth ₂ 1.675E-02 Ω Rth ₃ 1.023E-01 Ω Rth ₄ 2.229E-01 Ω Rth ₅ 6.814E-01 Ω Rth ₆ 3.349E+00 Ω Rth ₇ 2.648E-01 Ω Rth ₈ 3.995E-02 Ω	Cth ₁	Cth	Cth 1.267E-05 F Cth 6.746E-05 F Cth 9.693E-05 F Cth 4.239E-04 F Cth 2.081E-03 F Cth 2.081E-03 F Cth 4.773E+00 F Cth 4.773E+00 F Cth 6.814E-01 Ω Rth 2.229E-01 Ω Rth 2.229E-01 Ω Rth 3.349E+00 Ω Rth 2.228E-01 Ω Rth 3.349E+00 Ω Rth 3.395E-02 Ω Rth 3.995E-02 Ω Rth Cth Rth R