

Thermal RC network (Foster)

SPICE thermal model

BUK951R9-40E

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|-----------------------|---|-------------|-----|-------------|------------------------|----------|
| R _{th(j-mb)} | thermal resistance from junction to mounting base | | - | - | 0.43 | K/W |
| | | | | | | |
| | Cth ₁ | 2.727E-04 F | | | 4 . | |
| | Cth ₂ | 1.961E-03 F | | | tj | |
| | Cth ₃ | 1.472E-03 F | | | | |
| | Cth ₄ | 5.515E-03 F | | | Rth ₁ + Cth | |
| | Cth ₅ | 1.889E-02 F | | | ┙ ┈┈╴┯ ╺┉ | רי |
| | Cth ₆ | 3.370E-02 F | | | | |
| | Cth ₇ | 7.373E-01 F | | Г | 5 | |
| | Cth ₈ | 2.812E+02 F | | | Rth ₂ + Cth | 2 |
| | Rth ₁ | 3.269E-04 Ω | | | | |
| | Rth ₂ | 6.428E-04 Ω | | | ή | |
| | Rth ₃ | 7.505E-03 Ω | | | Rth3 = Cth | 3 |
| | Rth ₄ | 1.817E-02 Ω | | | ┖┯┛ | |
| | Rth ₅ | 6.176E-02 Ω | | | | |
| | Rth ₆ | 2.678E-01 Ω | | | Rth4 + Cth | 14 |
| | Rth ₇ | 7.287E-02 Ω | | | J 7 T % | '4 |
| | Rth ₈ | 6.467E-04 Ω | (| (P) | | |
| | | | | \bigvee , | 5 | |
| | | | | | Rth ₅ + Cth | 5 |
| | | | | | ┸┯┛ | |
| | | | | | | |
| | | | | | Rth ₆ + Cth | _ |
| | | | | | JRth6 | 16 |
| | | | | | | |
| | | | | | ς • Τ | |
| | | | | | Rth7 + Cth | 7 |
| | | | | L | | - |
| | | | | | | |
| Part: | BUK951R9-40E | | | | <u> </u> | |
| | | | | | _Rth8 | 8 |
| Date: | 17/4/2013 | | | | | |
| Model Rth | 0.43 K/W | | | — | | |
| | | | | \Diamond | t _{amb} | |
| | | | | | 001aal76 | 8 |