# Thermal RC network (Foster)

## SPICE thermal model

BUK7Y25-80E

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| $R_{th(j\text{-}mb)}$ | thermal resistance from junction to mounting base | | - | - | 1.58 | K/W |

| | | |
|---|---|---|
| $Cth_1$ | 2.916E-05 | F |
| $Cth_2$ | 1.726E-04 | F |
| $Cth_3$ | 2.092E-04 | F |
| $Cth_4$ | 1.786E-03 | F |
| $Cth_5$ | 2.130E-03 | F |
| $Cth_6$ | 8.451E-03 | F |
| $Cth_7$ | 8.634E-02 | F |

| | | |
|---|---|---|
| $Rth_1$ | 2.749E-03 | $\Omega$ |
| $Rth_2$ | 5.716E-03 | $\Omega$ |
| $Rth_3$ | 4.154E-02 | $\Omega$ |
| $Rth_4$ | 5.616E-02 | $\Omega$ |
| $Rth_5$ | 3.287E-01 | $\Omega$ |
| $Rth_6$ | 1.016E+00 | $\Omega$ |
| $Rth_7$ | 1.301E-01 | $\Omega$ |
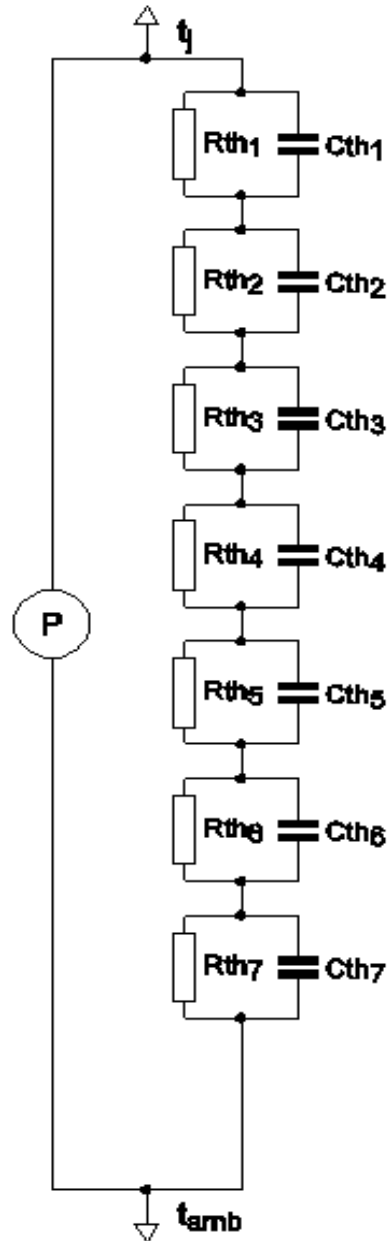


Part: BUK7Y25-80E

Date: 25/1/2013

Rth        1.58        K/W