## ne<mark>x</mark>peria

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If you have any questions related to the data sheet, please contact our nearest sales office via e-mail or telephone (details via **salesaddresses@nexperia.com**). Thank you for your cooperation and understanding,

Kind regards,

Team Nexperia



## Thermal RC network (Foster)

## **SPICE thermal model**

| Symbol                | Parameter   | Conditions  | Min | Тур               | Max                 | Unit |
|-----------------------|---|-------------|-----|-------------------|---------------------|------|
| R <sub>th(j-mb)</sub> | thermal resistance<br>from junction to<br>mounting base |             | -   | -                 | 0.63                | K/W  |
|                       |   |             |     |                   |                     |      |
|                       | Cth <sub>1</sub>  | 7.578E-05 F |     | Ύt                |                     |      |
|                       | Cth <sub>2</sub>  | 5.163E-04 F | Г   | 1                 | 7                   |      |
|                       | Cth <sub>3</sub>  | 5.303E-04 F |     | بل<br>ح           | - <b>4</b>          |      |
|                       | Cth <sub>4</sub>  | 4.594E-03 F |     | F                 | ₹th1 <b>= Ct</b> h1 |      |
|                       | Cth <sub>5</sub>  | 8.156E-03 F |     | 닌                 |                     |      |
|                       | Cth <sub>6</sub>  | 1.766E-02 F |     | _                 |                     |      |
|                       | Cth <sub>7</sub>  | 2.995E-01 F |     | [] F              |                     |      |
|                       | Rth₁  | 1.090Ε-03 Ω |     | بر<br>س           |                     |      |
|                       | Rth <sub>2</sub>  | 1.835Ε-03 Ω |     |                   |                     |      |
|                       | Rth <sub>3</sub>  | 1.563E-02 Ω |     | F                 | Rth3 📫 Cth3         |      |
|                       | Rth <sub>4</sub>  | 2.408E-02 Ω |     | Ľ                 | _┩┘                 |      |
|                       | Rth₅  | 1.003E-01 Ω |     | <u>ل</u>          | - <b>4</b>          |      |
|                       | Rth <sub>6</sub>  | 4.443E-01 Ω |     | F                 | 8th4 = Cth4         |      |
|                       | Rth <sub>7</sub>  | 4.209E-02 Ω | لے  | 、 Ľ               |                     |      |
|                       |   |             | ( P | ') _              | _ <b>_</b>          |      |
|                       |   |             | Т   | ĺ Π.              |                     |      |
|                       |   |             |     |                   |                     |      |
|                       |   |             |     |                   | - <b>+</b> '        |      |
|                       |   |             |     | Б.                | •                   |      |
|                       |   |             |     | F                 | the 🛨 Cth6          |      |
|                       |   |             |     | 닌                 |                     |      |
|                       |   |             |     | _                 | _ <b>_</b>          |      |
|                       |   |             |     |                   | th7 Cth7            |      |
|                       |   |             |     | ļ                 | th7 Cth7            |      |
|                       |   |             |     | L                 |                     |      |
| Part:                 | BUK7Y4R8-60E  |             |     |                   |                     |      |
| Date:                 | 25/1/2013   |             |     |                   |                     |      |
| Rth                   | 0.63 K/W  | 1           | L   | t                 | <br>= <b>b</b>      |      |
|                       |   |             |     | ↓ t <sub>an</sub> | טוו                 |      |
|                       |   |             |     |                   |                     |      |
|                       |   |             |     |                   |                     |      |

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