

EPC2015 SPICE Thermal Model

$R_{\theta JC}$ & $R_{\theta JB}$

EPC2015 $R_{\theta JC}$ SPICE Thermal Model

Typical $R_{\theta JC} = 2.1^{\circ} \text{ C/W}$

$$CTHERM1 \text{ th } 6 = 0.0090$$

$$CTHERM2 \text{ 6 } 5 = 0.0900$$

$$CTHERM3 \text{ 5 } 4 = 0.0050$$

$$CTHERM4 \text{ 4 } 3 = 0.0012$$

$$CTHERM4 \text{ 3 } 2 = 0.00040$$

$$CTHERM5 \text{ 2 } \text{tl} = 0.00005$$

$$R_{THERM1} \text{ th } 6 = 1.100$$

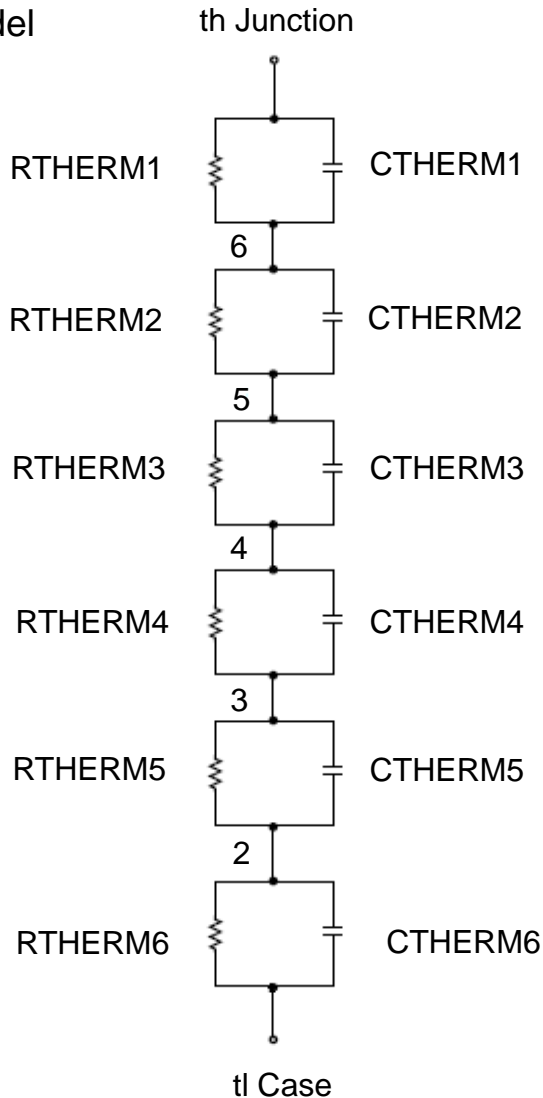
$$R_{THERM2} \text{ 6 } 5 = 0.711$$

$$R_{THERM3} \text{ 5 } 4 = 0.200$$

$$R_{THERM4} \text{ 4 } 3 = 0.060$$

$$R_{THERM5} \text{ 3 } 2 = 0.022$$

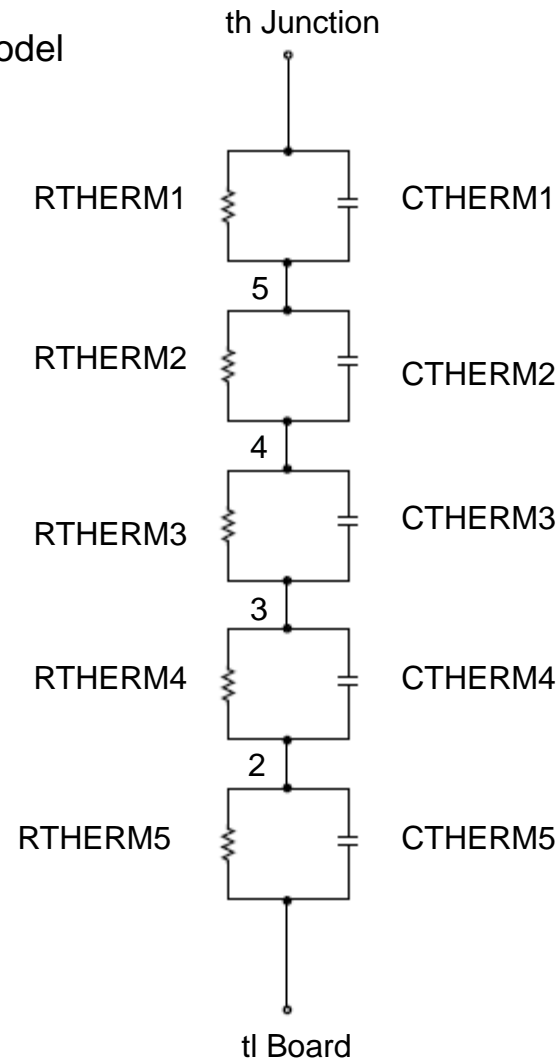
$$R_{THERM5} \text{ 2 } \text{tl} = 0.007$$



EPC2015 $R_{\theta JB}$ SPICE Thermal Model

- CTHERM1 th 5 = 0.060
- CTHERM2 5 4 = 0.055
- CTHERM3 4 3 = 0.019
- CTHERM4 3 2 = 0.085
- CTHERM5 2 tl = 0.0042

- RTHERM1 th 5 = 6.76
- RTHERM2 5 4 = 5.000
- RTHERM3 4 3 = 2.500
- RTHERM4 3 2 = 0.640
- RTHERM5 2 tl = 0.100





*The end of the road
for silicon.....*

*is the beginning of
the eGaN FET
journey!*

