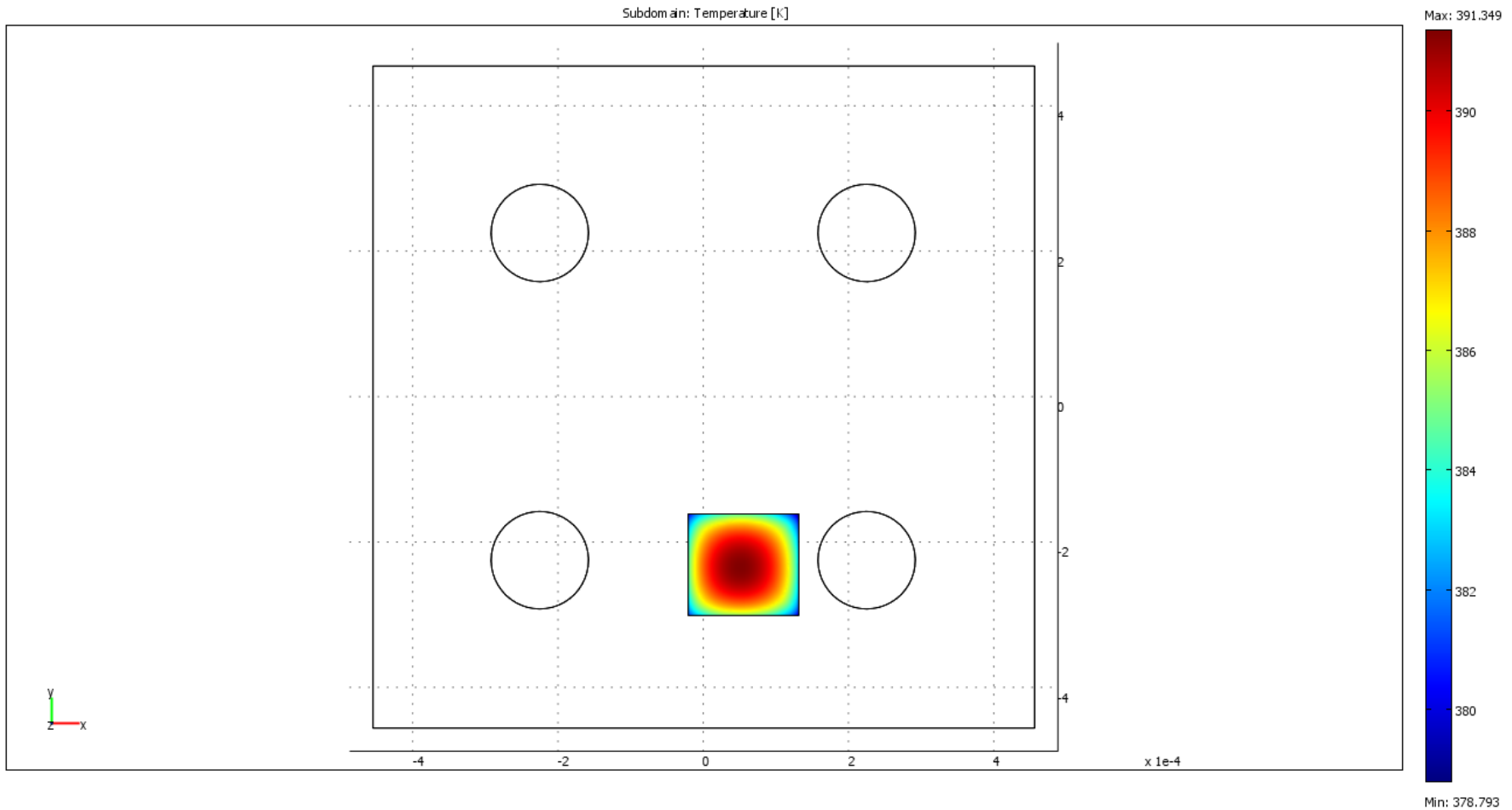


EPC2038 Thermal Model

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

Steady State $R_{\theta JB}$

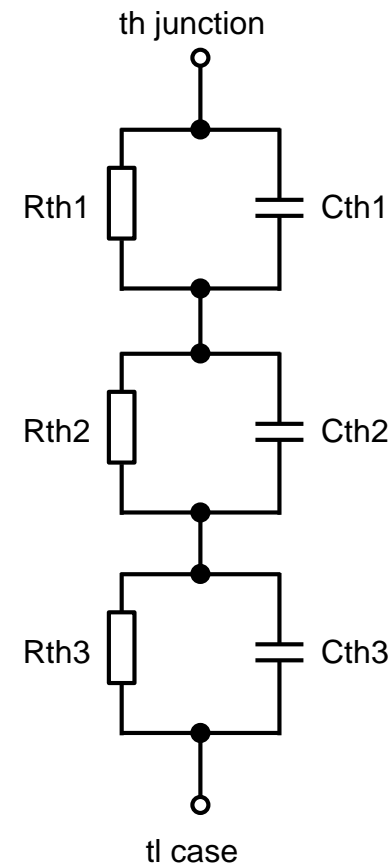
$$R_{\theta JB} = 91.3 \text{ } ^\circ \text{ C/W}$$



Transient $R_{\theta JB}$

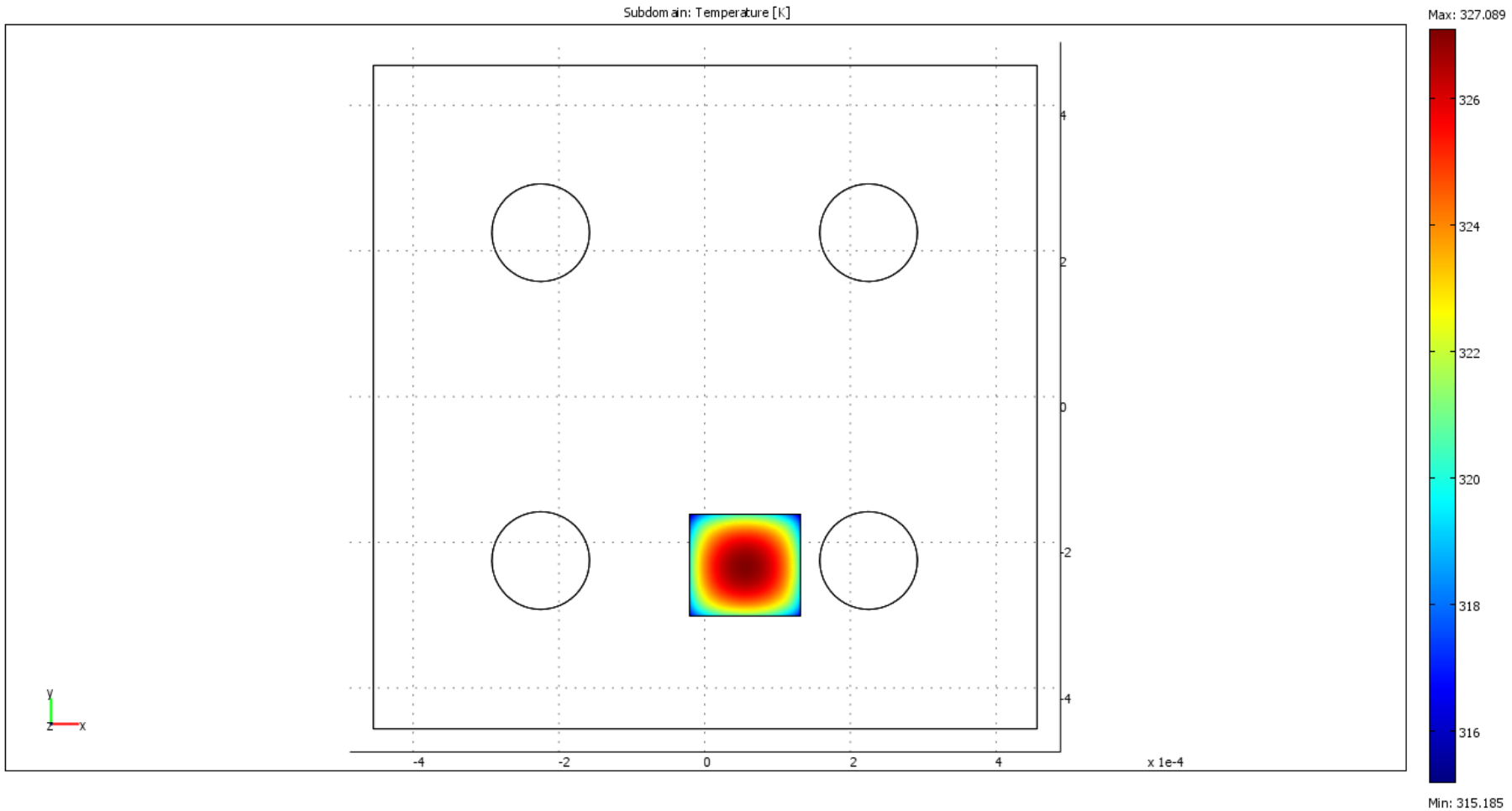
Transient junction temperature as a function of time under 1W load

| Fitting parameter | Value |
|-------------------|---------------|
| Rth1 | 91.1 ° C/W |
| Cth1 | 1.32E-3 J/° C |
| Rth2 | 9.31E-2 ° C/W |
| Cth2 | 2.21E-3 J/° C |
| Rth3 | 7.84E-2 ° C/W |
| Cth3 | 1.24E-3 J/° C |



Steady State $R_{\theta JC}$

$$R_{\theta JC} = 27.1 \text{ } ^\circ \text{ C/W}$$



Transient $R_{\theta JC}$

Transient junction temperature as a function of time under 1W load

| Fitting parameter | Value |
|-------------------|---------------|
| Rth1 | 14.2 ° C/W |
| Cth1 | 6.56E-4 J/° C |
| Rth2 | 12.8 ° C/W |
| Cth2 | 9.46E-5 J/° C |
| Rth3 | 8.3E-2 ° C/W |
| Cth3 | 1.79E-4 J/° C |

