EPC2037 Thermal Model
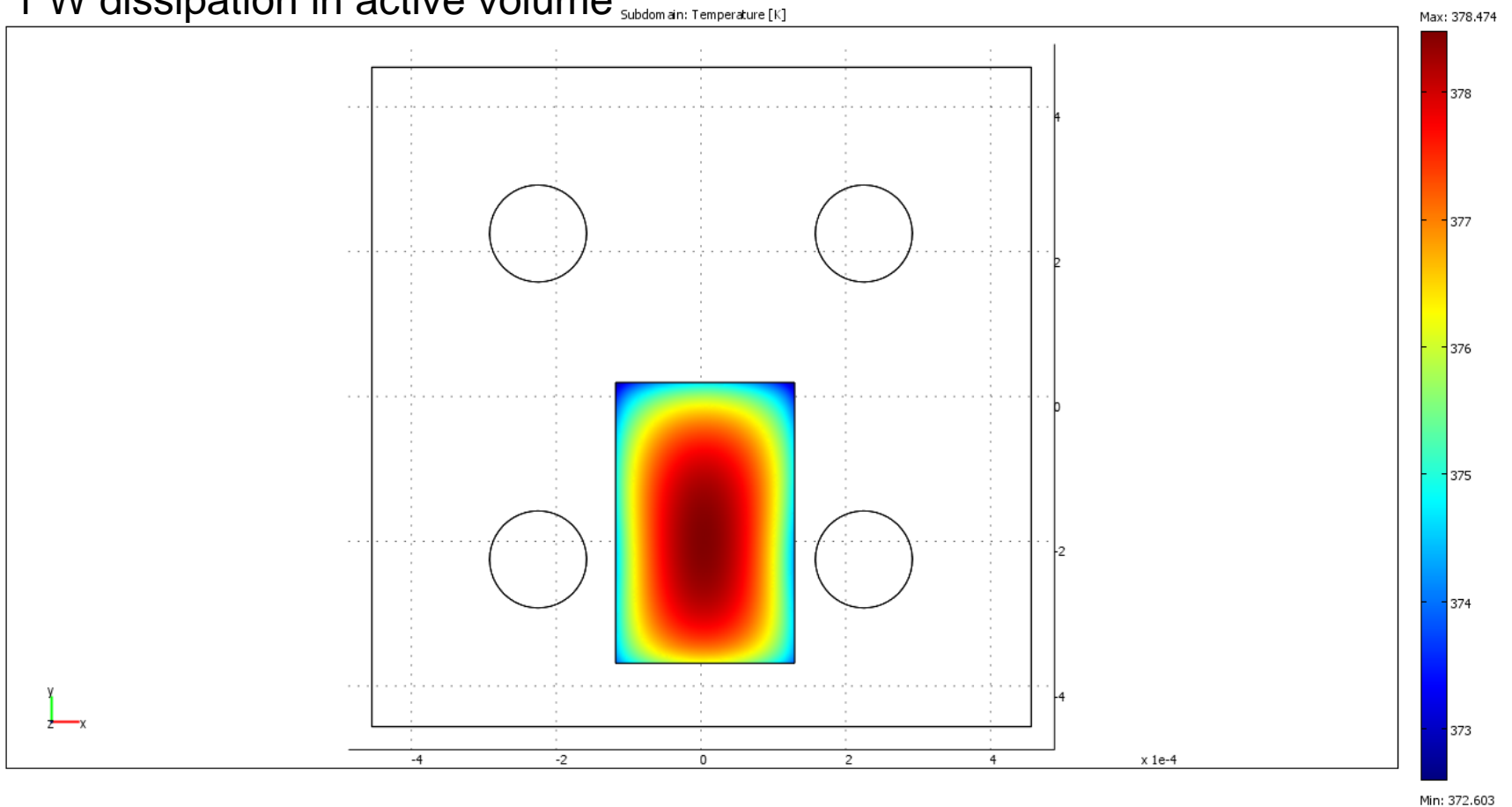# $R_{\theta JB}$ & $R_{\theta JC}$

Steady State $R_{\theta JB}$

$R_{\theta JB}$ = 78.5 ° C/W

1 W dissipation in active volume

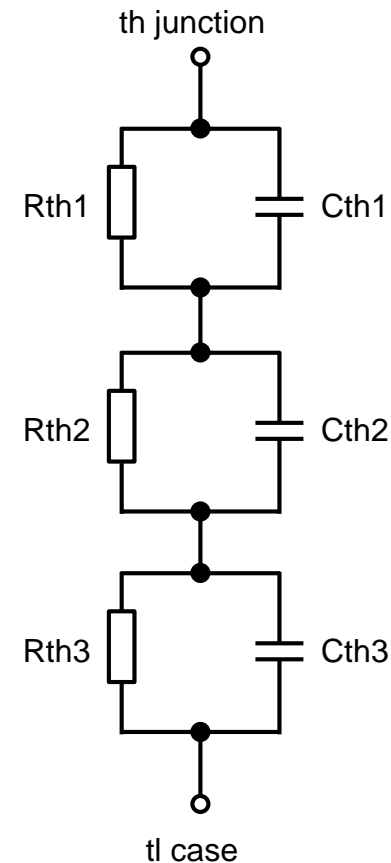Subdomain: Temperature [K]

Top of bumps at 300K

Max: 378.474

Min: 372.603

Transient $R_{\theta JB}$

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

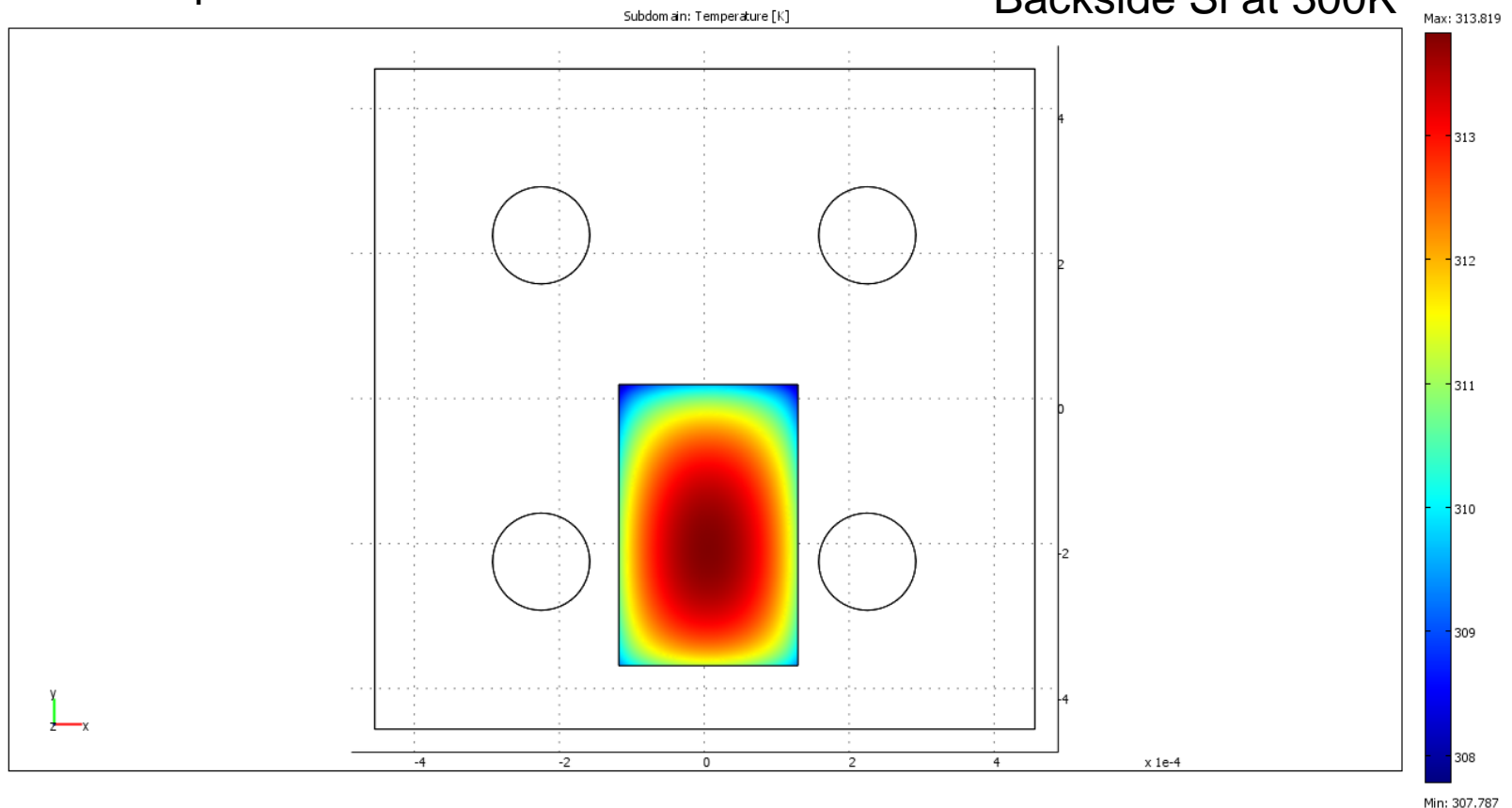| Fitting parameter	Value	Unit
Rth1	78.3	°C/W
Rth2	1.19E-1	
Rth3	8.37E-2	
Cth1	1.34E-3	J/°C
Cth2	2.78E-3	
Cth3	1.4E-3	

th junction

Rth1   Cth1

Rth2   Cth2

Rth3   Cth3

tl case

Steady State $R_{\Theta JC}$

$R_{\Theta JC}$ = 13.8 ° C/W

1 W dissipation in active volume

Backside Si at 300K

Transient $R_{\theta JC}$

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

Fitting parameter	Value	Unit
Rth1	8.71	°C/W
Rth2	5.05	
Rth3	4.05E-2	
Cth1	7.34E-4	J/°C
Cth2	1.71E-4	
Cth3	3.03E-4	

th junction

Rth1   Cth1

Rth2   Cth2

Rth3   Cth3

tl case