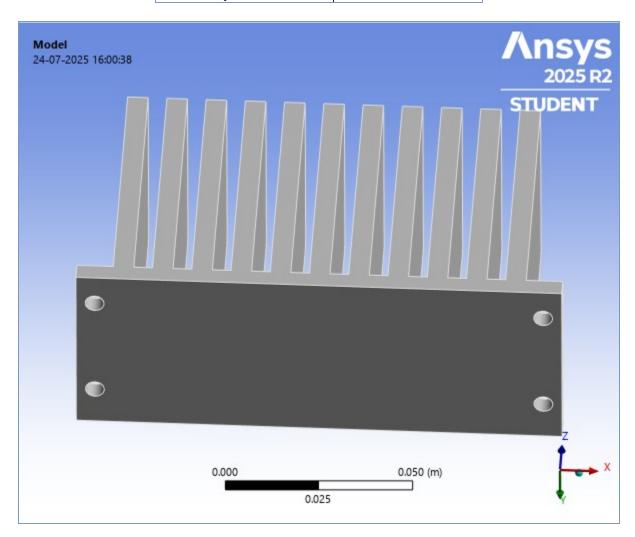
Project* Page 1 of 29



Project*

First Saved	Thursday, July 24, 2025
Last Saved	Thursday, July 24, 2025
Product Version	2025 R2
Save Project Before Solution	No
Save Project After Solution	No



Project* Page 2 of 29

Contents

- Units
- Model (A4, B4)
 - o Geometry Imports
 - Geometry Import (A3, B3)
 - o **Geometry**
 - HeatSink\Solid
 - o Materials
 - o Coordinate Systems
 - o Mesh
 - Body Sizing
 - o Steady-State Thermal (A5)
 - Initial Temperature
 - Analysis Settings
 - Loads
 - Solution (A6)
 - Solution Information
 - Results
 - o Static Structural (B5)
 - Analysis Settings
 - Fixed Support
 - Imported Load (A6)
 - Imported Body Temperature
 - Solution (B6)
 - Solution Information
 - Results
- Material Data
 - o Aluminum Alloy 2

Units

TABLE 1

Unit System	Metric (m, kg, N, s, V, A) Degrees rad/s Celsius
Angle	Degrees
Rotational Velocity	rad/s
Temperature	Celsius

Model (A4, B4)

TABLE 2 Model (A4, B4) > Geometry Imports

	- · · · J · ·
Object Name	Geometry Imports
State	Solved

TABLE 3

Model (A4, B4) > Geometry Imports > Geometry Import (A3, B3)

Object Name	Geometry Import (A3, B3)	

Project* Page 3 of 29

State	Solved
	Definition
Source	D:\projects\ANSYS Projects\Thermal Analysis of a Power Electronic Heat Sink\ThermalAnalysisOfHeatSink_files\dp0\SYS\DM\SYS.dsco
Туре	Discovery
	Basic Geometry Options
Solid Bodies	Yes
Surface Bodies	Yes
Line Bodies	Yes
Parameters	Independent
Parameter Key	
Attributes	Yes
Attribute Key	
Named Selections	Yes
Named Selection Key	
Material Properties	No
	Advanced Geometry Options
Use Associativity	Yes
Coordinate Systems	Yes
Coordinate System Key	
Reader Mode Saves	No
Updated File	
Use Instances	Yes
Smart CAD Update	Yes
Compare Parts On Update	No
Analysis Type	3-D
Mixed Import Resolution	None
Import Facet Quality	Source
Clean Bodies On Import	No
Stitch Surfaces On Import	None
Decompose Disjoint Geometry	Yes
Enclosure and Symmetry Processing	Yes

Geometry

TABLE 4 Model (A4, B4) > Geometry

model (744) 5-1) - Goomery		
Object Name	Geometry	
State	Fully Defined	
Definition		
Source	D:\projects\ANSYS Projects\Thermal Analysis of a Power Electronic Heat Sink\ThermalAnalysisOfHeatSink_files\dp0\SYS\DM\SYS.dsco	
Туре	Discovery	
Length Unit	Meters	
Element Control	Program Controlled	
Display Style	Body Color	
Bounding Box		

Project* Page 4 of 29

Length X	0.13 m	
Length Y	5.e-002 m	
Length Z	7.5e-002 m	
Properties		
Volume	2.4386e-004 m³	
Mass	0.67548 kg	
Scale Factor Value	1.	
	Statistics	
Bodies	1	
Active Bodies	1	
Nodes	36490	
Elements	19832	
Mesh Metric	None	
	Update Options	
Assign Default Material	No	
Ē	Basic Geometry Options	
Solid Bodies	Yes	
Surface Bodies	Yes	
Line Bodies	Yes	
Parameters	Independent	
Parameter Key		
Attributes	Yes	
Attribute Key		
Named Selections	Yes	
Named Selection Key		
Material Properties	No	
Advanced Geometry Options		
Use Associativity	Yes	
Coordinate Systems	Yes	
Coordinate System Key		
Reader Mode Saves Updated File	No	
Use Instances	Yes	
Smart CAD Update	Yes	
Compare Parts On Update	No	
Analysis Type	3-D	
Mixed Import Resolution	None	
Import Facet Quality	Source	
Clean Bodies On Import	No	
Stitch Surfaces On Import	None	
Decompose Disjoint Geometry	Yes	
ID_GeometryPrefProcessPhysicsDefinition	No	
Enclosure and Symmetry Processing	Yes	

TABLE 5 Model (A4, B4) > Geometry > Parts

Model (AT, DT)	Occincity - 1 arts	
Object Name	HeatSink\Solid	
State	Meshed	
Graphics Properties		
Visible	Yes	
Transparency	1	
Definition		
Suppressed	No	

Project* Page 5 of 29

Stiffness Behavior	Flexible	
Coordinate System	Default Coordinate System	
Reference Temperature	By Environment	
Treatment	None	
Ma	aterial	
Assignment	Aluminum Alloy 2	
Nonlinear Effects	Yes	
Thermal Strain Effects	Yes	
Bound	ding Box	
Length X	0.13 m	
Length Y	5.e-002 m	
Length Z	7.5e-002 m	
Properties		
Volume	2.4386e-004 m³	
Mass	0.67548 kg	
Centroid X	4.7489e-020 m	
Centroid Y	1.7945e-006 m	
Centroid Z	3.5062e-002 m	
Moment of Inertia lp1	4.8901e-004 kg·m²	
Moment of Inertia Ip2	1.1193e-003 kg·m²	
Moment of Inertia lp3	9.1174e-004 kg·m²	
Statistics		
Nodes	36490	
Elements	19832	
Mesh Metric	None	
CAD Attributes		
PartTolerance:	0.0000001	
Color:128.128.255		

FIGURE 1 Model (A4, B4) > Geometry > Figure

Project* Page 6 of 29

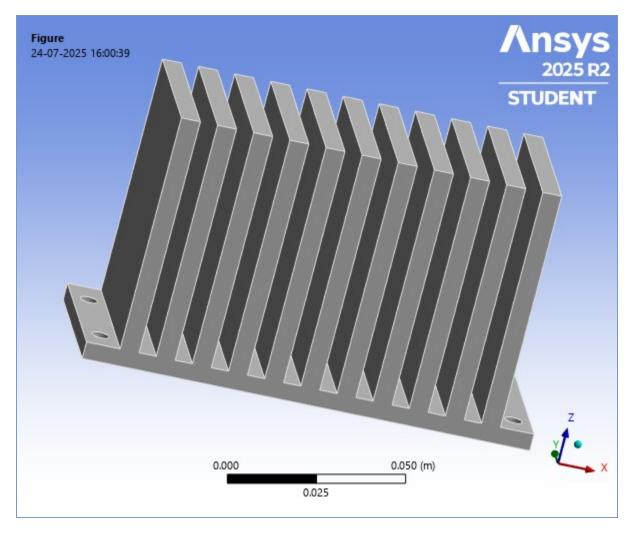


TABLE 6 Model (A4, B4) > Materials

100001 (7 t-1) D-1) *	matorialo
Object Name	Materials
State	Fully Defined
Statistics	
Materials 4	
Material Assignments	0

Coordinate Systems

TABLE 7
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Global Coordinate System	
State	Fully Defined	
	•	
Definition		
Туре	Cartesian	
Coordinate System ID	0.	
Origin		
Origin X	0. m	
Origin Y	0. m	
Origin Z	0. m	
Directional Vectors		

Project* Page 7 of 29

X Axis Data	[1. 0. 0.]	
Y Axis Data	[0. 1. 0.]	
Z Axis Data	[0. 0. 1.]	
Transfer Properties		
Source		
Read Only	No	

Mesh

TABLE 8 Model (A4, B4) > Mesh

1110doi (714, 54) * 1110			
Object Name	Mesh		
State	Solved		
Display			
Display Style	Use Geometry Setting		
Defaults	, ,		
Physics Preference	Mechanical		
Element Order	Program Controlled		
Element Size	Default		
Sizing			
Use Adaptive Sizing	Yes		
Resolution	Default (2)		
Mesh Defeaturing	Yes		
Defeature Size	Default		
Transition	Fast		
Span Angle Center	Coarse		
Initial Size Seed	Assembly		
Bounding Box Diagonal	0.15819 m		
Average Surface Area	1.8598e-003 m²		
Minimum Edge Length	5.e-003 m		
Quality	0.0 000 111		
Check Mesh Quality	Yes, Errors		
Error Limits	Aggressive Mechanical		
Target Element Quality	Default (5.e-002)		
Smoothing	Medium		
Mesh Metric	None		
Inflation	None		
Use Automatic Inflation	None		
Inflation Option	Smooth Transition		
Transition Ratio	0.272		
Maximum Layers	5		
Growth Rate	1.2		
Inflation Algorithm	Pre		
Inflation Element Type	Wedges		
View Advanced Options	No		
Advanced Advanced	INO		
Number of CPUs for Parallel Part Meshing	Program Controlled		
Straight Sided Elements	No No		
	Dimensionally Reduced		
Rigid Body Behavior Triangle Surface Mesher			
	Program Controlled Yes		
Topology Checking Pinch Tolerance			
Pinch Tolerance	Please Define		
l I			

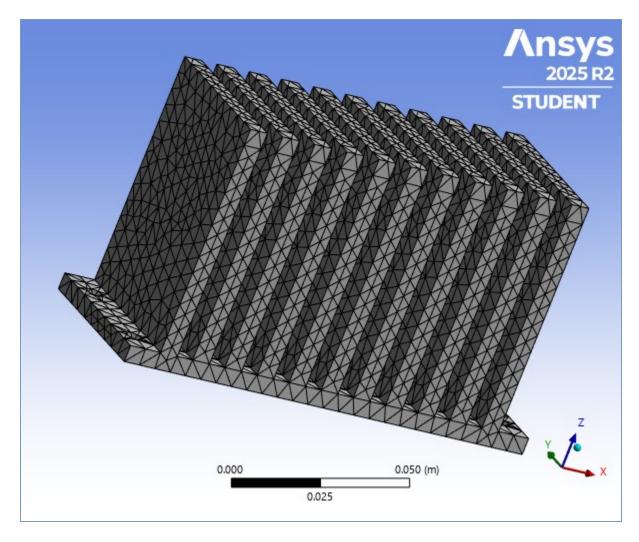
Generate Pinch on Refresh	No		
Auto-Map Fillets	No		
Automatic Methods			
Sheet Body Method	Prime Quad Dominant		
Sweepable Body Method	Sweep		
Statistics			
Nodes	36490		
Elements	19832		
Show Detailed Statistics	No		

TABLE 9
Model (A4, B4) > Mesh > Mesh Controls

Object Name	Body Sizing		
State	Fully Defined		
Scope			
Scoping Method	Geometry Selection		
Geometry	1 Body		
Definition			
Suppressed	No		
Туре	Element Size		
Element Size	5.e-003 m		
Advanced			
Defeature Size	Default		
Behavior	Soft		

FIGURE 2 Model (A4, B4) > Mesh > Figure

Project* Page 9 of 29



Steady-State Thermal (A5)

TABLE 10 Model (A4, B4) > Analysis

	· / / /			
Object Name	Steady-State Thermal (A5)			
State	Solved			
Definition				
Physics Type	Thermal			
Analysis Type Steady-State				
Solver Target Mechanical APDL				
Options				
Generate Input Only	No			

TABLE 11
Model (A4, B4) > Steady-State Thermal (A5) > Initial Condition

Object Name	Initial Temperature	
State	Fully Defined	
Definition		
Initial Temperature Uniform Temperature		
Initial Temperature Value	22. °C	

TABLE 12

Project* Page 10 of 29

Model (A4, B4) > Steady-State Thermal (A5) > Analysis Settings

Model (A4, B4) > Steady-State Thermal (A5) > Analysis Settings			
Object Name	Analysis Settings		
State	Fully Defined		
	Step Controls		
Number Of Steps	1.		
Current Step Number	1.		
Step End Time	1. s		
Auto Time Stepping	Program Controlled		
	Solver Controls		
Solver Type	Program Controlled		
Solver Pivot Checking	Program Controlled		
Solver i mot one of the	Radiosity Controls		
Radiosity Solver	Program Controlled		
Flux Convergence	1.e-004		
Maximum Iteration	1000.		
Solver Tolerance	0.1 W/m²		
Over Relaxation			
	0.1		
Hemicube Resolution	10.		
	Nonlinear Controls		
Heat Convergence	Program Controlled		
Temperature	Program Controlled		
Convergence			
Line Search	Program Controlled		
	Advanced		
Contact Split (DMP)	Program Controlled		
	Output Controls		
Output Selection	None		
Calculate Thermal	Yes		
Flux			
Contact Data	Yes		
Nodal Forces	No		
Volume and Energy	Yes		
Euler Angles	Yes		
General	No		
Miscellaneous	INO		
Contact	No		
Miscellaneous	INO		
Store Results At	All Time Points		
Result File	Program Controlled		
Compression	-		
Analysis Data Management			
Solver Files Directory	D:\projects\ANSYS Projects\Thermal Analysis of a Power Electronic Heat Sink\ThermalAnalysisOfHeatSink files\dp0\SYS\MECH\		
Future Analysis	None		
Scratch Solver Files			
Directory			
Save MAPDL db	No		
Contact Summary	Program Controlled		
Delete Unneeded			
Files	Yes		
Nonlinear Solution	Yes		
Solver Units	Active System		
Solver Unit System	mks		

Project* Page 11 of 29

TABLE 13 Model (A4, B4) > Steady-State Thermal (A5) > Loads

woder (A4, D4) > Steady-State Thermal (A3) > Loads			
Object Name	Temperature	Convection	
State	Fully Defined		
Scope			
Scoping Method	Geometry Selection		
Geometry	1 Face 1 Body		
Definition			
Туре	Temperature Convection		
Magnitude	95. °C (ramped)		
Suppressed	No		
Film Coefficient	30. W/m²·°C (step applied		
Ambient Temperature	22. °C (ramped)		
Convection Matrix	Program Controlled		
Element APDL Name			

FIGURE 3
Model (A4, B4) > Steady-State Thermal (A5) > Temperature

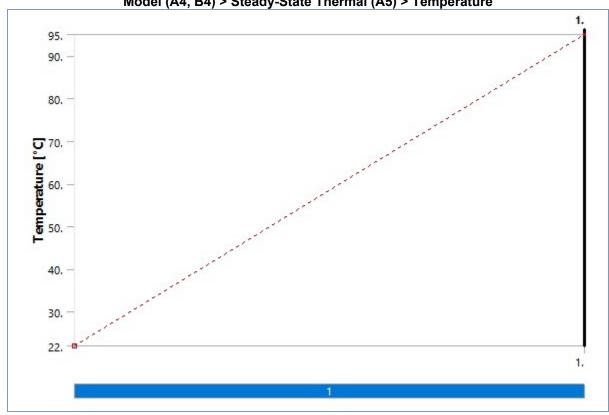


FIGURE 4
Model (A4, B4) > Steady-State Thermal (A5) > Temperature > Figure

Project* Page 12 of 29

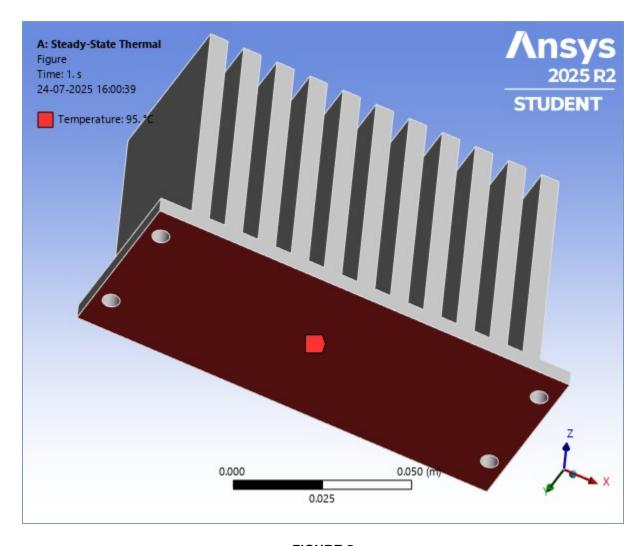


FIGURE 5
Model (A4, B4) > Steady-State Thermal (A5) > Convection

Project* Page 13 of 29

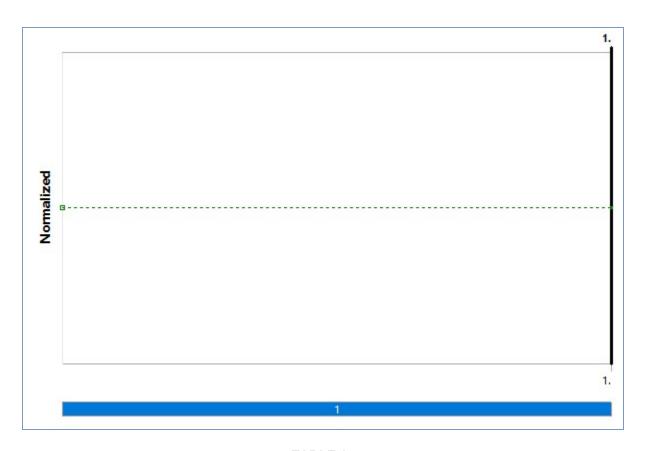
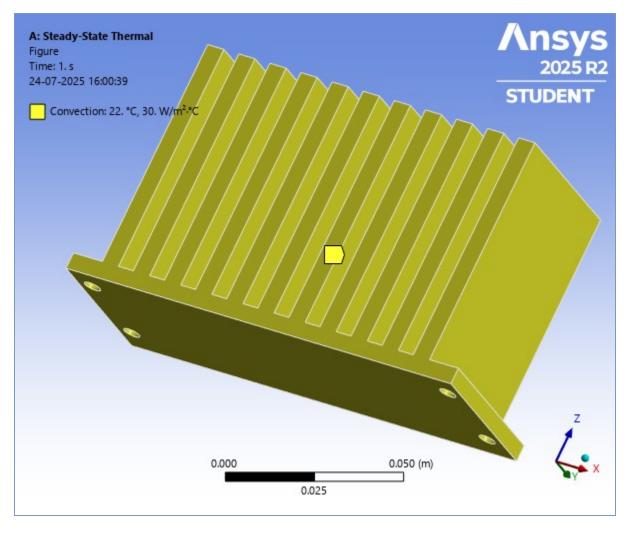


TABLE 14
Model (A4, B4) > Steady-State Thermal (A5) > Convection

Steps	Time [s]	Convection Coefficient [W/m².°C]	Temperature [°C]
1	0.	= 30.	= 22.
'	1.	30.	22.

FIGURE 6
Model (A4, B4) > Steady-State Thermal (A5) > Convection > Figure

Project* Page 14 of 29



Solution (A6)

TABLE 15 Model (A4, B4) > Steady-State Thermal (A5) > Solution

Object Name	Solution (A6)		
State	Solved		
Adaptive Mesh Refinement			
Max Refinement Loops	1.		
Refinement Depth	2.		
Information			
Status	Done		
MAPDL Elapsed Time	11. s		
MAPDL Memory Used	453. MB		
MAPDL Result File Size	10.688 MB		
Post Processing			
Beam Section Results	No		
On Demand Stress/Strain	No		

TABLE 16
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Solution Information

_	Object Name	Solution Information
	State	Solved

Project* Page 15 of 29

Solution Information		
Solution Output	Solver Output	
Update Interval	2.5 s	
Display Points	All	
FE Connection Visibility		
Activate Visibility	Yes	
Display	All FE Connectors	
Draw Connections Attached To	All Nodes	
Line Color	Connection Type	
Visible on Results	No	
Line Thickness	Single	
Display Type	Lines	

TABLE 17
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Results

tin, Dry - Otoday Otato .	1101111ai (710) ⁷	Colution (7 to)	
Object Name	Temperature	Total Heat Flux	
State	Sc	olved	
	Scope		
Scoping Method Geometry Selection			
Geometry	All E	Bodies	
D	efinition		
Туре	Temperature	Total Heat Flux	
Ву	Т	ïme	
Display Time	L	.ast	
Separate Data by Entity	a by Entity No		
Calculate Time History	Yes		
Identifier			
Suppressed	No		
F	Results		
Minimum	81.713 °C	1312.9 W/m²	
Maximum	95. °C	57898 W/m ²	
Average	87.051 °C	27267 W/m ²	
Minimum Occurs On	HeatS	ink\Solid	
Maximum Occurs On	HeatS	ink\Solid	
Information			
Time	1. s		
Load Step	1		
Substep	1		
Iteration Number	r 2		
Integration Point Results			
Display Option	Averaged		
Average Across Bodies	No		

FIGURE 7
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Temperature

Project* Page 16 of 29

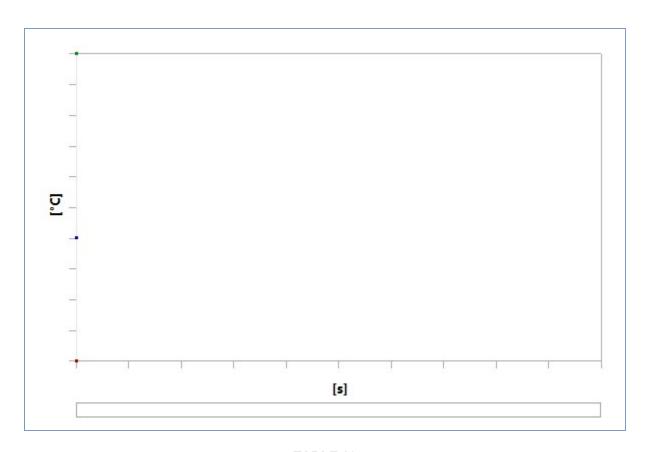


TABLE 18

Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Temperature

Time [s1] Minimum [°C1] Maximum [°C1] Average [°C1]

Time [s]	Minimum [°C]	Maximum [°C]	Average [°C]
1.	81.713	95.	87.051

FIGURE 8
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Temperature > Figure

Project* Page 17 of 29

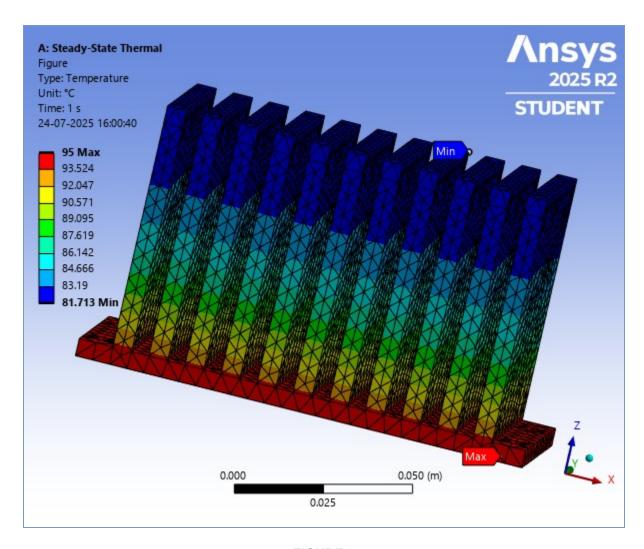


FIGURE 9
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Total Heat Flux

Project* Page 18 of 29

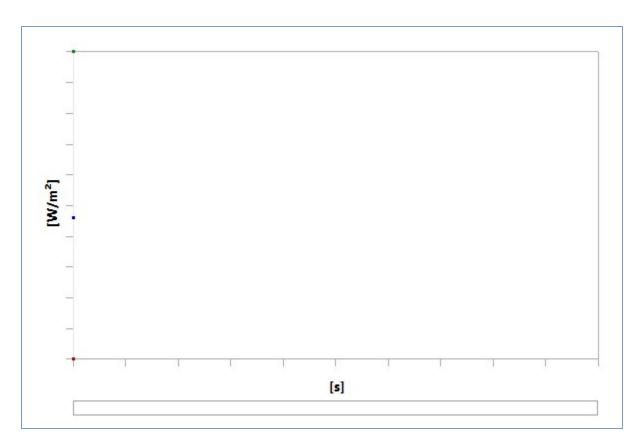


 TABLE 19

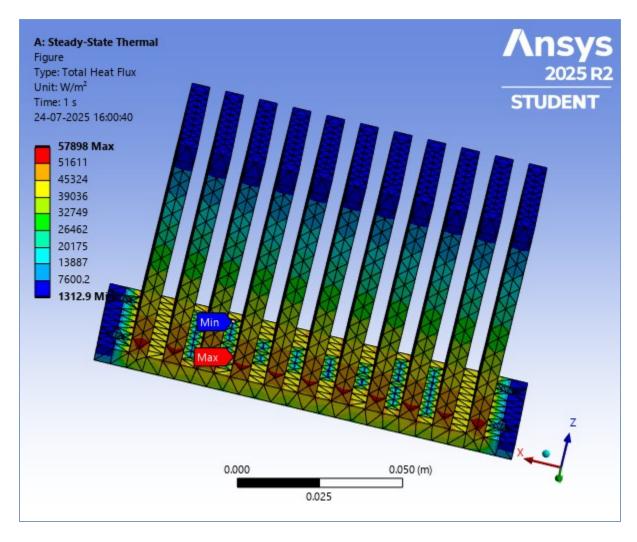
 Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Total Heat Flux

 Time [s]
 Minimum [W/m²]
 Maximum [W/m²]
 Average [W/m²]

 1.
 1312.9
 57898
 27267

FIGURE 10
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Total Heat Flux > Figure

Project* Page 19 of 29



Static Structural (B5)

TABLE 20 Model (A4, B4) > Analysis

	7 11.14.1 3 0.10		
Object Name	Static Structural (B5)		
State	Solved		
Definition			
Physics Type	Structural		
Analysis Type	Static Structural		
Solver Target	Mechanical APDL		
Options			
Environment Temperature	22. °C		
Generate Input Only	No		

TABLE 21

Model (A4, B4) > Static Structural (B5) > Analysis Settings

Model (A4, D4) > Static Structural (D3) > Analysis Settings			
Object Name	e Analysis Settings		
State Fully Defined			
Step Controls			
Number Of Steps	1.		
Current Step Number	1.		
Step End Time	1. s		

Project* Page 20 of 29

Auto Time Stepping	Program Controlled	
Solver Controls		
Solver Type Program Controlled		
Weak Springs Off		
Solver Pivot Checking	-	
Large Deflection	Off	
Inertia Relief	Off	
Quasi-Static Solution	Off	
Quadr State Solution	Rotordynamics Controls	
Coriolis Effect	Off	
	Restart Controls	
Generate Restart	Program Controlled	
Points	1 Togram Controlled	
Retain Files After Full Solve	No	
Combine Restart Files	Program Controlled	
1 1100	Nonlinear Controls	
Newton-Raphson		
Öption	Program Controlled	
Force Convergence	Program Controlled	
Moment Convergence	Program Controlled	
Displacement	Program Controlled	
Convergence	Program Controlled	
Rotation	Program Controlled	
Convergence		
Line Search	Program Controlled	
Stabilization Program Controlled		
In company Outline	Advanced	
Inverse Option	No December 1	
Contact Split (DMP)	Program Controlled	
Outrout Calaatian	Output Controls	
Output Selection	None	
Stress	Yes	
Back Stress	No No	
Strain	Yes	
Contact Data	Yes	
Nonlinear Data	No	
Nodal Forces	No No	
Volume and Energy	Yes	
Euler Angles	Yes	
General	No	
Miscellaneous Contact		
Miscellaneous	No	
Store Results At	All Time Points	
Result File		
Compression	Program Controlled	
Comprossion	Analysis Data Management	
Solver Files Directory	D:\projects\ANSYS Projects\Thermal Analysis of a Power Electronic Heat Sink\ThermalAnalysisOfHeatSink_files\dp0\SYS-2\MECH\	
Future Analysis	None	
Scratch Solver Files		
Directory		

Project* Page 21 of 29

Save MAPDL db	No	
Contact Summary	y Program Controlled	
Delete Unneeded Files	YAÇ	
Nonlinear Solution	No	
Solver Units	Active System	
Solver Unit System	mks	

TABLE 22 Model (A4, B4) > Static Structural (B5) > Loads

, (· · · ,			
Fixed Support			
Fully Defined			
Scope			
Geometry Selection			
4 Faces			
inition			
Fixed Support			
No			

FIGURE 11
Model (A4, B4) > Static Structural (B5) > Fixed Support > Figure

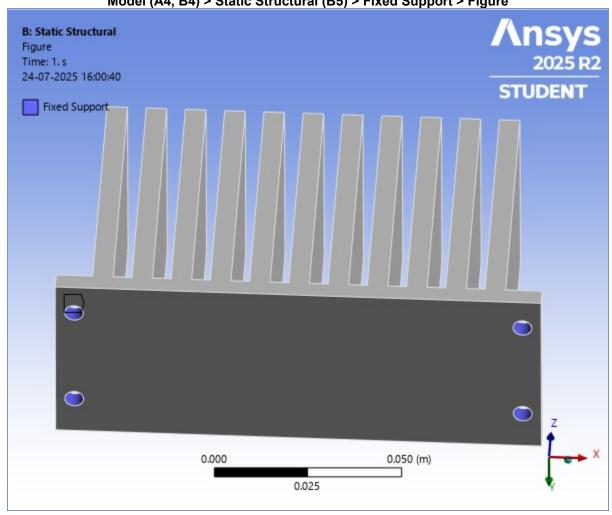


TABLE 23
Model (A4, B4) > Static Structural (B5) > Imported Load (A6)

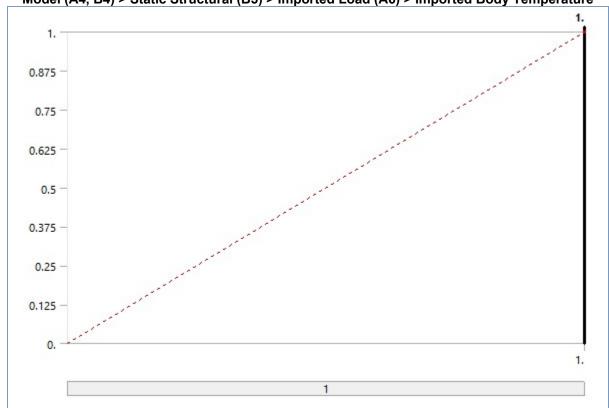
Project* Page 22 of 29

Object Name	Imported Load (A6)	
State	Fully Defined	
Definition		
Туре	Imported Data	
Interpolation Type	Mechanical Results Transfer	
Suppressed	No	
Source	A6::Solution	
Data Management		
Delete Mapped Data Files	Yes	

TABLE 24
Model (A4, B4) > Static Structural (B5) > Imported Load (A6) > Imported Body Temperature

Imported Body Temperature		
Solved		
Scope		
Geometry Selection		
1 Body		
Definition		
Imported Body Temperature		
Program Controlled		
To Input File		
No		
Steady-State Thermal (A5)		
Worksheet		

FIGURE 12
Model (A4, B4) > Static Structural (B5) > Imported Load (A6) > Imported Body Temperature



Model (A4, B4) > Static Structural (B5) > Imported Load (A6) > Imported Body Temperature

Project* Page 23 of 29

		Source Time (s)	Analysis Time (s)	Scale	Offset (Δ°C)
ľ	1	End Time	1	1	0
ľ	*				

Solution (B6)

TABLE 25
Model (A4, B4) > Static Structural (B5) > Solution

ci (A4, B4) - Static Structural (B5) - Sol			
Object Name	Solution (B6)		
State	Solved		
Adaptive Mesh Ref	inement		
Max Refinement Loops	1.		
Refinement Depth	2.		
Information	l		
Status	Done		
MAPDL Elapsed Time	12. s		
MAPDL Memory Used	607. MB		
MAPDL Result File Size	14.188 MB		
Post Processi	ng		
Beam Section Results	No		
On Demand Stress/Strain	No		

TABLE 26
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Solution Information

Object Name	Solution Information	
State	Solved	
Solution Information		
Solution Output	Solver Output	
Newton-Raphson Residuals	0	
Identify Element Violations	0	
Update Interval	2.5 s	
Display Points	All	
FE Connection Visibility		
Activate Visibility	Yes	
Display	All FE Connectors	
Draw Connections Attached To	All Nodes	
Line Color	Connection Type	
Visible on Results	No	
Line Thickness	Single	

TABLE 27
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Results

Total Deformation	Equivalent Stress		
Solved			
Scope			
Geo	metry Selection		
All Bodies			
Definition			
Total Deformation	Equivalent (von-Mises) Stress		
Time			
Last			
No			
	Scope Geo Definition Total Deformation		

Calculate Time History		Yes
Identifier		
Suppressed		No
	Results	
Minimum	0. m	10249 Pa
Maximum	1.3001e-004 m	5.1221e+008 Pa
Average	6.9344e-005 m	2.1941e+007 Pa
Minimum Occurs On	HeatSink\Solid	
Maximum Occurs On	HeatSink\Solid	
Information		
Time 1. s		1. s
Load Step	1	
Substep	1	
Iteration Number	1	
Integration Point Results		
Display Option		Averaged
Average Across Bodies		No

FIGURE 13 Model (A4, B4) > Static Structural (B5) > Solution (B6) > Total Deformation

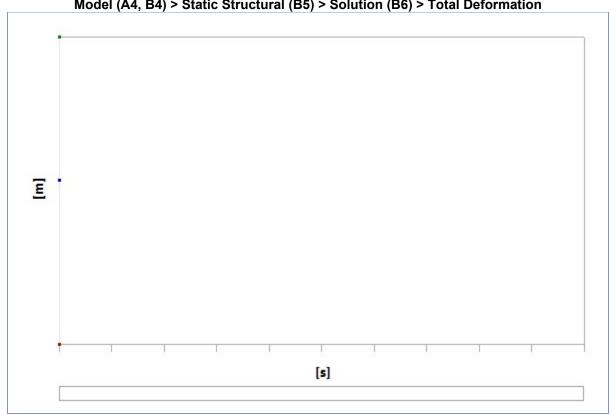


TABLE 28
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Total Deformation

Time [s]	Minimum [m]	Maximum [m]	Average [m]
1.	0.	1.3001e-004	6.9344e-005

FIGURE 14 Model (A4, B4) > Static Structural (B5) > Solution (B6) > Total Deformation > Figure

Project* Page 25 of 29

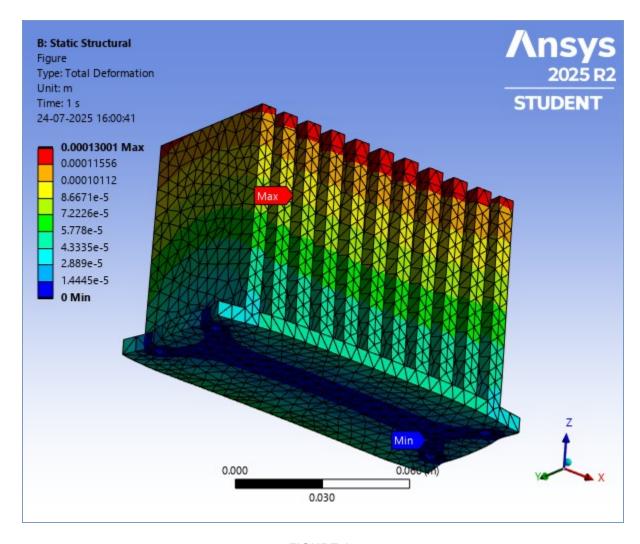


FIGURE 15 Model (A4, B4) > Static Structural (B5) > Solution (B6) > Equivalent Stress

Project* Page 26 of 29

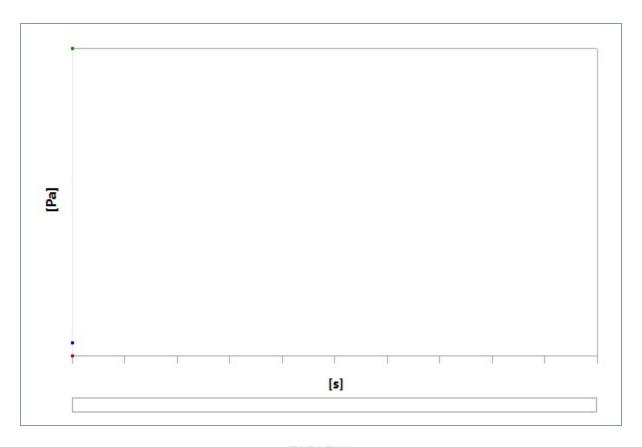


 TABLE 29

 Model (A4, B4) > Static Structural (B5) > Solution (B6) > Equivalent Stress

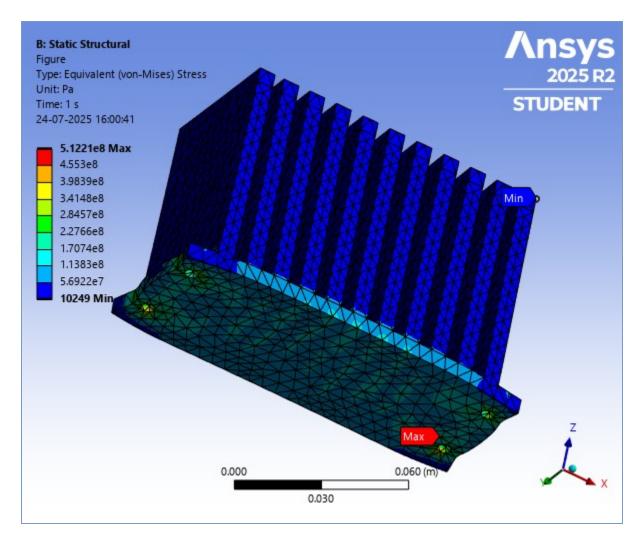
 Time [s] Minimum [Pa] Maximum [Pa] Average [Pa]

 1.
 10249

 5.1221e+008
 2.1941e+007

FIGURE 16
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Equivalent Stress > Figure

Project* Page 27 of 29



Material Data

Aluminum Alloy 2

TABLE 30
Aluminum Alloy 2 > Constants

, administration of the control of t	
Density	2770 kg m^-3
Isotropic Secant Coefficient of Thermal Expansion	2.3e-005 C^-1
Specific Heat Constant Pressure	875 J kg^-1 C^-1

TABLE 31
Aluminum Alloy 2 > Appearance

Red	Green	Blue
138	104	46

TABLE 32
Aluminum Alloy 2 > Compressive Ultimate Strength

Compressive Ultimate Strength Pa 0

TABLE 33
Aluminum Alloy 2 > Compressive Yield Strength

Project* Page 28 of 29

Compressive Yield Strength Pa 2.8e+008

TABLE 34 Aluminum Alloy 2 > Tensile Yield Strength

Tensile Yield Strength Pa 2.8e+008

TABLE 35 Aluminum Alloy 2 > Tensile Ultimate Strength

Tensile Ultimate Strength Pa 3.1e+008

TABLE 36

Aluminum Alloy 2 > Isotropic Secant Coefficient of Thermal Expansion

Zero-Thermal-Strain Reference Temperature C 22

TABLE 37 Aluminum Alloy 2 > Isotropic Thermal Conductivity

Thermal Conductivity W m^-1 C^-1	Temperature C
114	-100
144	0
165	100
175	200

TABLE 38 Aluminum Alloy 2 > S-N Curve

Cycles	R-Ratio
1700	-1
5000	-1
34000	-1
1.4e+005	-1
8.e+005	-1
2.4e+006	-1
5.5e+007	-1
1.e+008	-1
50000	-0.5
3.5e+005	-0.5
3.7e+006	-0.5
1.4e+007	-0.5
5.e+007	-0.5
1.e+008	-0.5
50000	0
1.9e+005	0
1.3e+006	0
4.4e+006	0
1.2e+007	0
1.e+008	0
3.e+005	0.5
1.5e+006	0.5
1.2e+007	0.5
1.e+008	0.5
	1700 5000 34000 1.4e+005 8.e+005 2.4e+006 5.5e+007 1.e+008 50000 3.5e+005 3.7e+006 1.4e+007 5.e+007 1.e+008 50000 1.9e+005 1.3e+006 4.4e+006 1.2e+007 1.e+008 3.e+005 1.5e+006 1.2e+007

TABLE 39
Aluminum Alloy 2 > Isotropic Resistivity

Resistivity kg m^3 A^-2 s^-3	Temperature C
2.43e-008	0
2.67e-008	20
3.63e-008	100

TABLE 40
Aluminum Alloy 2 > Isotropic Elasticity

Young's Modulus Pa	Poisson's Ratio	Bulk Modulus Pa	Shear Modulus Pa	Temperature C
7.1e+010	0.33	6.9608e+010	2.6692e+010	

TABLE 41
Aluminum Alloy 2 > Isotropic Relative Permeability

Relative Permeability
1