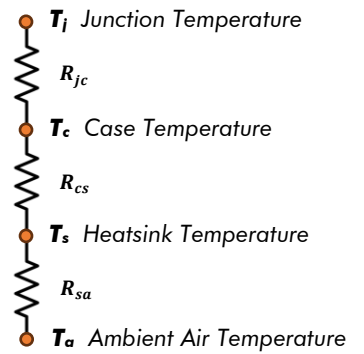
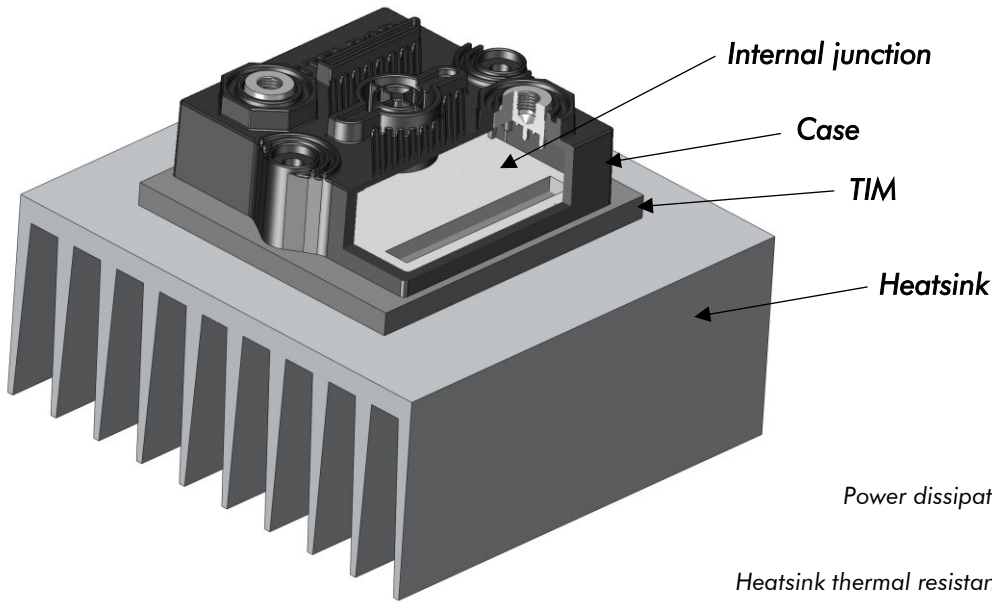


Calculation of Heatsink Thermal Resistance



Power dissipated

$$P_d = \frac{T_j - T_a}{R_{sa} + R_{cs} + R_{jc}}$$

Heatsink thermal resistance

$$R_{sa} = \frac{T_j - T_a}{P_d} - (R_{cs} + R_{jc})$$

HEATSINK SELECTION – example with RTS-02-300 and AAB TG4

$T_j = 120 [^{\circ}C]$	$T_a = 10 [^{\circ}C]$	$P_d = 300 [W]$
$R_{cs} = 0,06 [^{\circ}C/W]$	$R_{jc} = 0,11 [^{\circ}C/W]$	
$R_{sa} = \frac{120 - 10}{300} - (0,06 + 0,11) = 0,197 [^{\circ}C/W]$		



For example sufficient:
Aluminium Alloy Black Anodise with cross-section:

length 160mm and velocity 1m/s