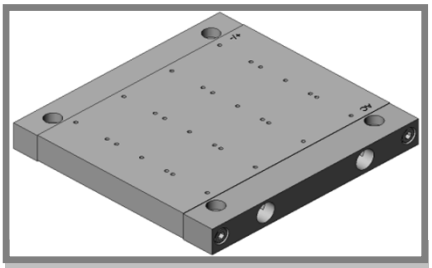
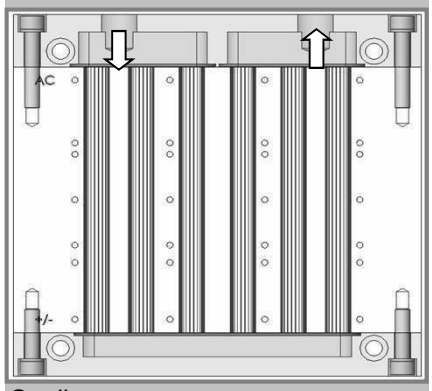
NHC 152 - SKiM63



For SKiM 63 / 93

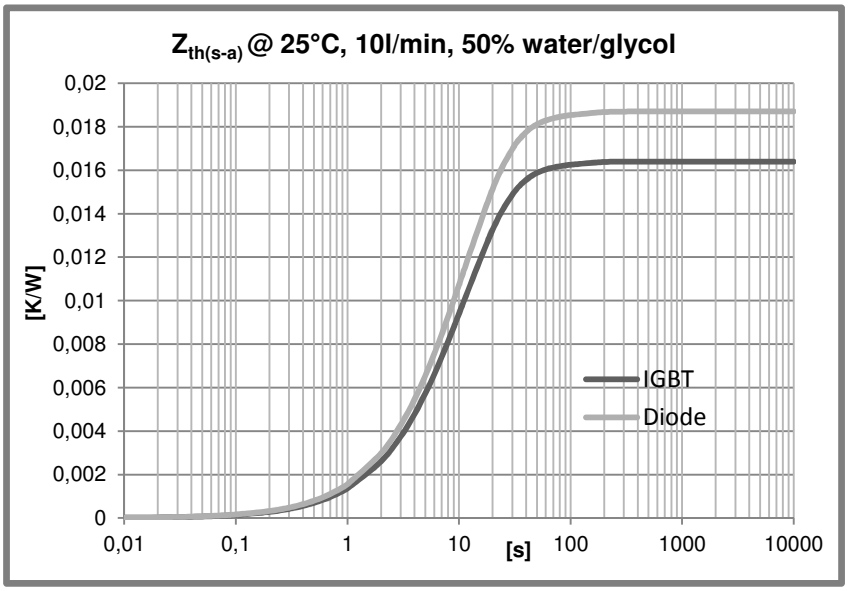
Data sheet values measured with SKiM 63 + NHC

In- and outlet on the same side

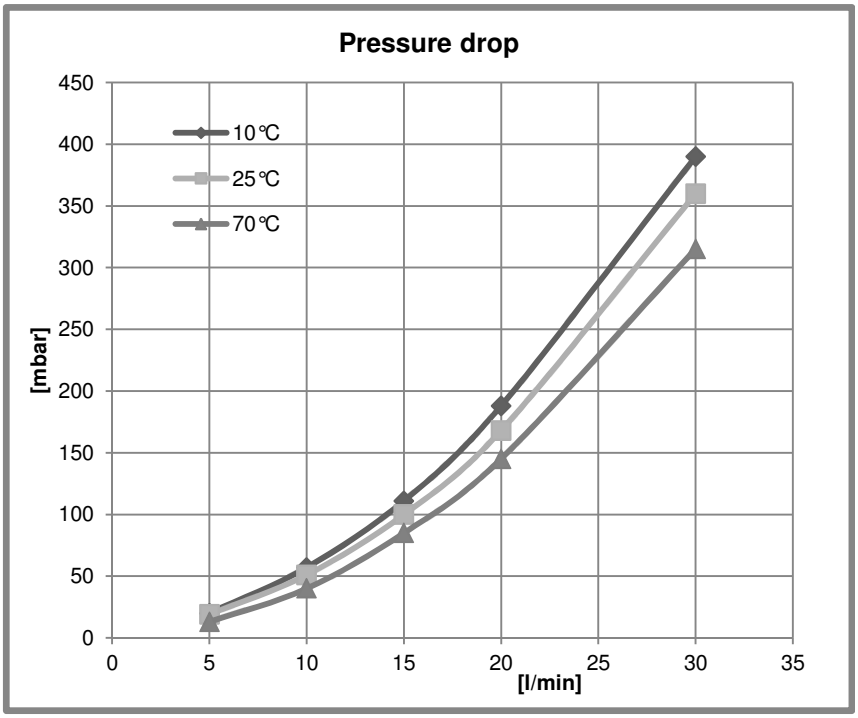


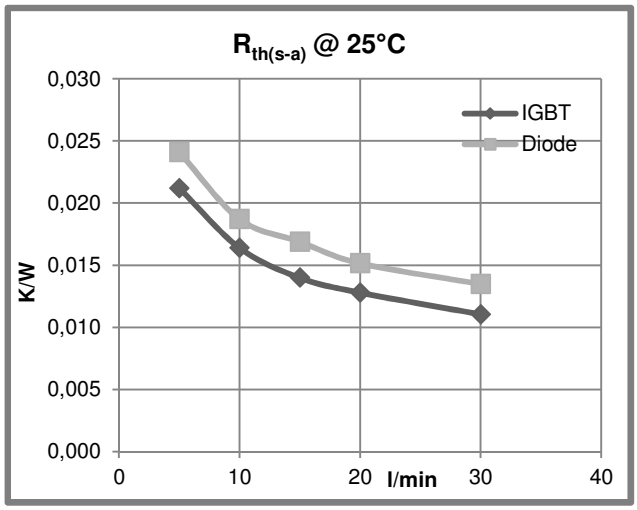
Cooling system:
Nominal pressure: 3bar
Test pressure: 6bar

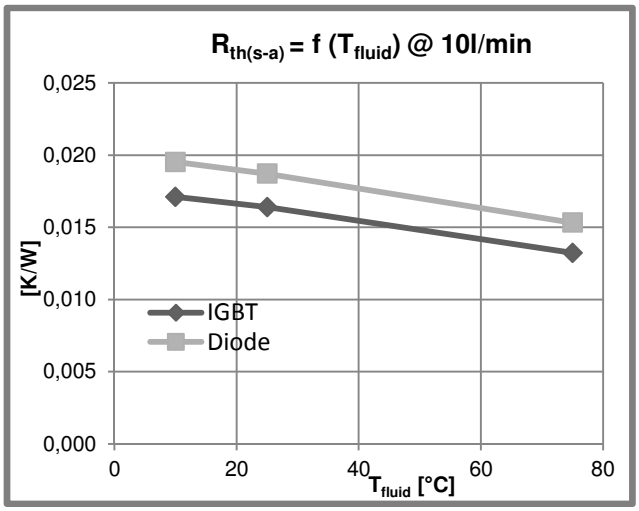
50 % glycol, 10 l/min @T_{fluid}=25°C	$R_{th(s-a)}$ IGBT	$R_{th(s-a)}$ Diode
	[K/W]	[K/W]
	0,0164	0,0187

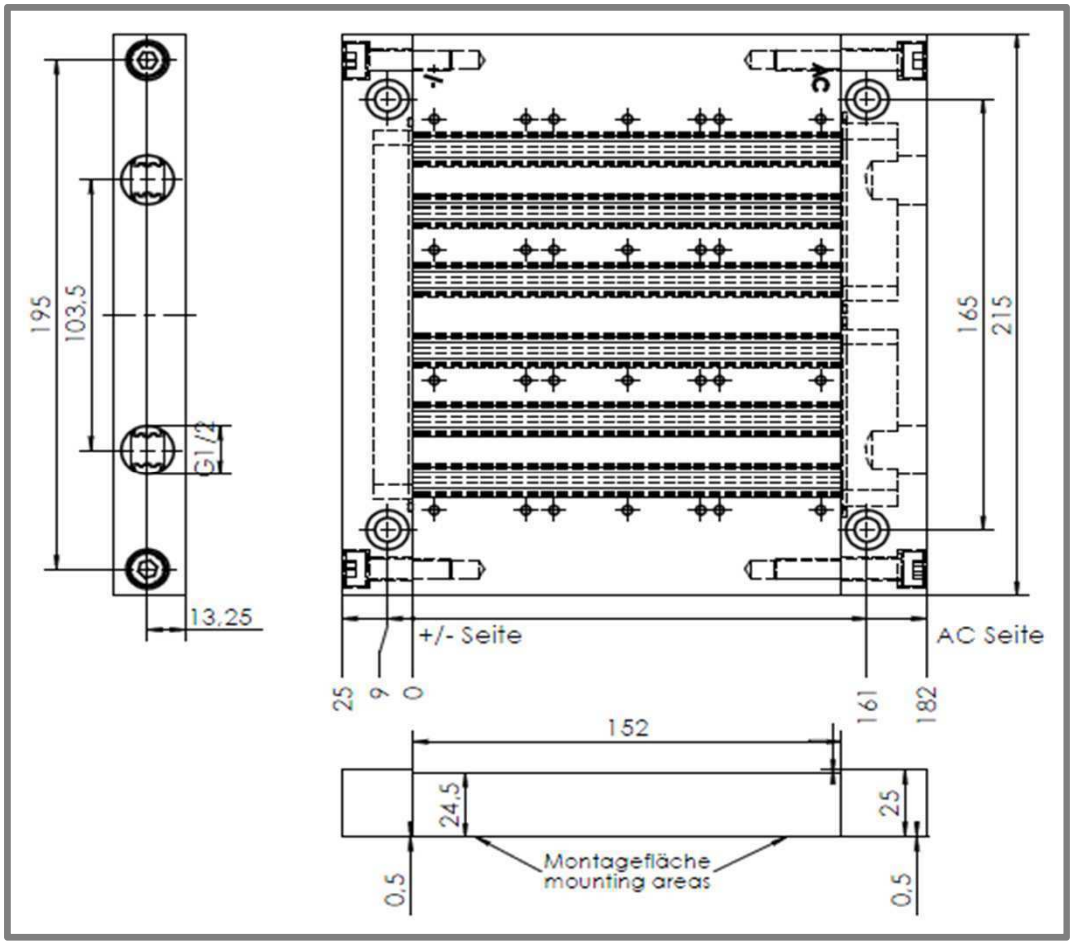


$Z_{th(s-a)}$	R_{th} IGBT [K/W]	tau [s]	R_{th} Diode [K/W]	tau [s]
1	0,0155	11	0,0177	33
2	0,0009	55	0,0010	165
3				
4				







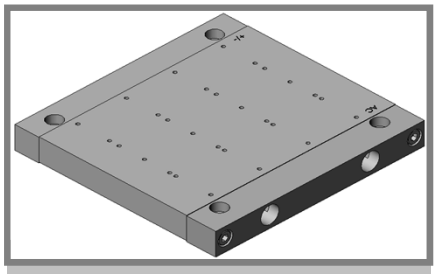


When Rth is required for 1 switch it have to calculate as follows:

$R_{th(s-a)}$ per switch IGBT = $R_{th(s-a)}$ IGBT x 6 = 0,0164 K/W x 6 = 0,0984 K/W

$R_{th(s-a)}$ per switch Diode = $R_{th(s-a)}$ Diode x 6 = 0,0187 x 6 = 0,1122 K/W

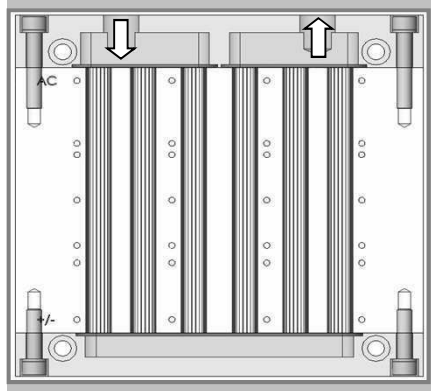
NHC 152 - SKiM93



For SKiM 63 / 93

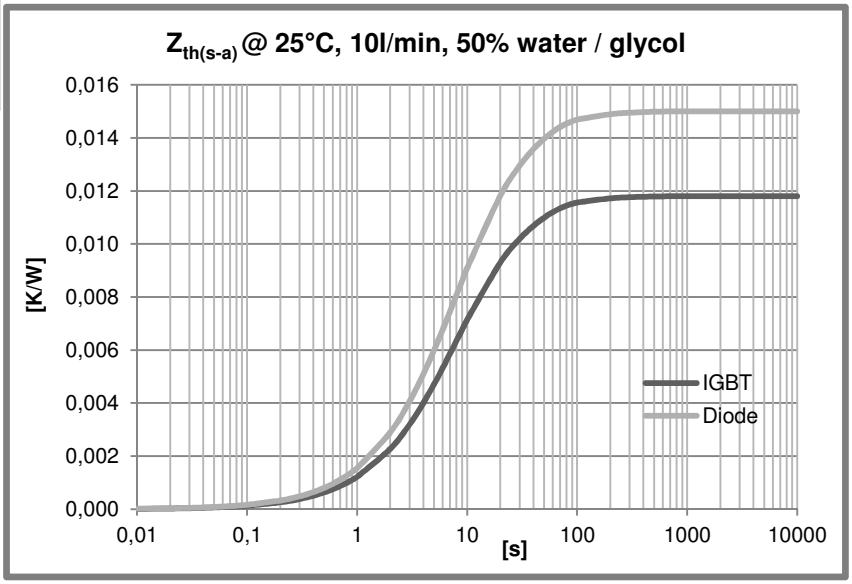
Data sheet values measured with SKiM 93 + NHC

In- and outlet on the same side

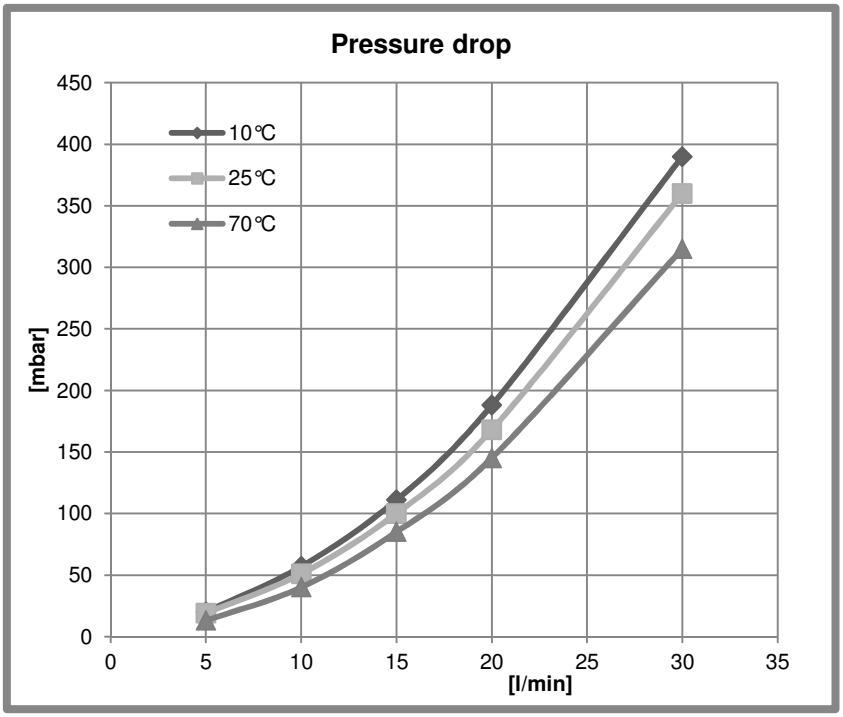


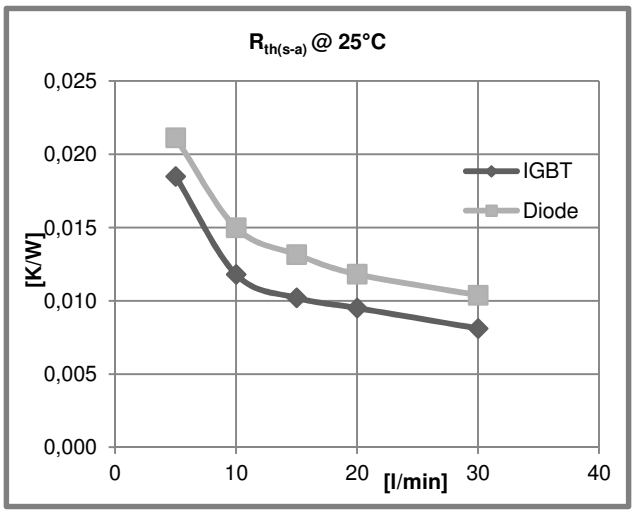
Cooling system:
Nominal pressure: 3bar
Test pressure: 6bar

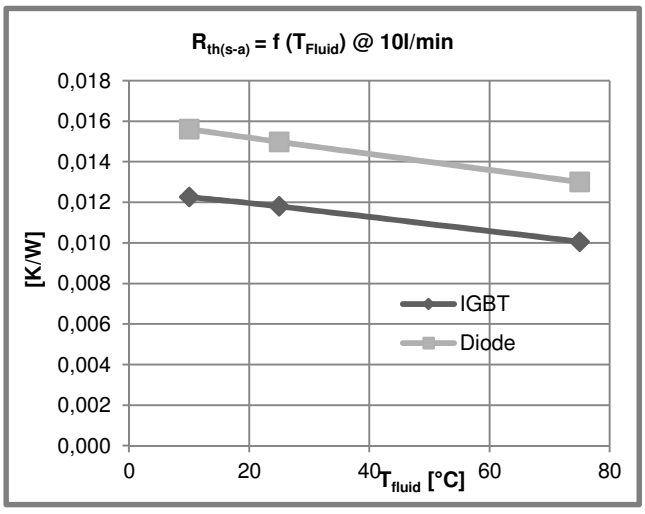
50 % glycol, 10 l/min @T_{fluid}=25°C	$R_{th(s-a)}$ IGBT	$R_{th(s-a)}$ Diode
	[K/W]	[K/W]
	0,0118	0,0150

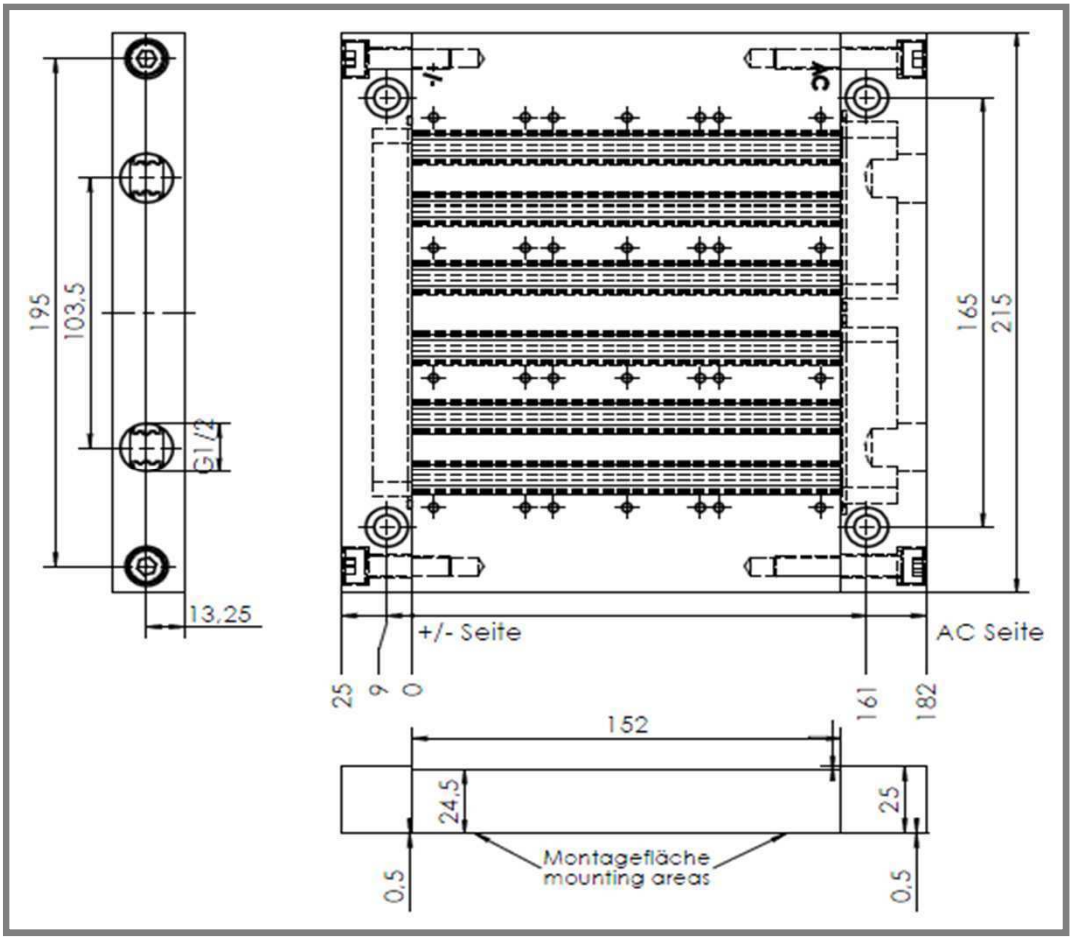


$Z_{th(s-a)}$	R_{th} IGBT [K/W]	tau [s]	R_{th} Diode [K/W]	tau [s]
1	0,0073	6,42	0,0093	6,42
2	0,0042	25,52	0,0053	25,52
3	0,0003	149,3	0,0004	149,3
4				









When Rth is required for 1 switch it have to calculate as follows:

$R_{th(s-a)}$ per switch IGBT = $R_{th(s-a)}$ IGBT x 6 = 0,0118 K/W x 6 = 0,0708 K/W

$R_{th(s-a)}$ per switch Diode = $R_{th(s-a)}$ Diode x 6 = 0,015 x 6 = 0,0900 K/W