

Temperature increase of main components

Model: BRFS50

1. Conditions

- (1) Input :DC 12 [V]
 (2) Output :Rated output
 (3) Air flow : 1 [m/s]
 (4) Mounting method :Shown as Fig.1.1

2. Result

Table 2.1 Temperature increase of main components

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			50							
1	High Side Fet	TR121	63.3						150	Junction Temp.
2	Low Side Fet	TR122	64.5						150	Junction Temp.
3	High Side Fet	TR131	63.3						150	Junction Temp.
4	Low Side Fet	TR132	64.5						150	Junction Temp.
5	Driver Ic	IC101	59.4						150	Junction Temp.
6	Power Control Ic	IC301	58.4						125	Junction Temp.
7	Output Choke(Coil)	L141	61.0						130	
8	Output Choke(Coil)	L151	61.0						130	
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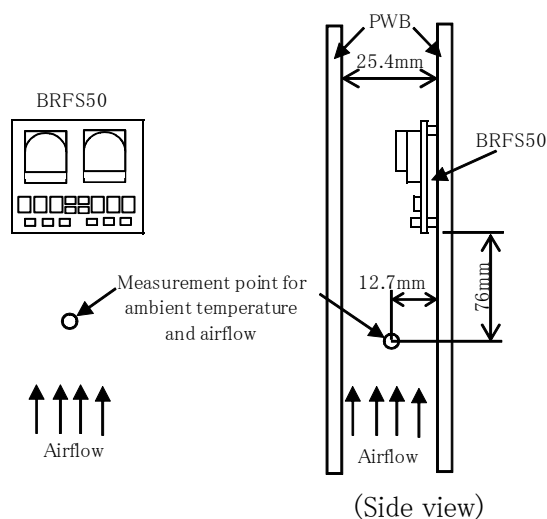


Fig.1.1 Mounting method