

Date : Aug.18,2004

Temperature increase of main components

Model: SFS1048series

1. Conditions

(1) Input : DC36-76V
 (2) Output : Rated output
 (3) Mounting method : Shown as Fig.1.1

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			1.2V	1.5V	1.8V	2V	2.5V	3.3V		
1	Switching MOS-FET	TR101	21	25	27	26	28	22	150	Junction Temp.
2	Power control IC	IC101	20	22	22	20	19	20	150	Junction Temp.
3	Transformer (PWB)	T101	19	23	21	20	19	19	130	
4	Rectifying MOS-FET	TR501	18	24	22	20	24	27	150	Junction Temp.
5	Rectifying MOS-FET	TR502	18	25	23	20	25	24	150	Junction Temp.
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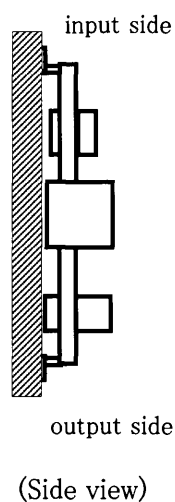


Fig.1.1 Mounting method

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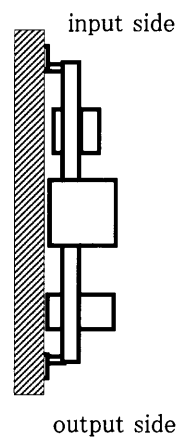
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1. Conditions

(1) Input : DC36~76V
 (2) Output : Rated output
 (3) Mounting method : Shown as Fig.1.1

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			5V	12V	15V					
1	Switching MOS-FET	TR101	35	25	33				150	Junction Temp.
2	Power control IC	IC101	23	25	27				150	Junction Temp.
3	Transformer (PWB)	T101	23	29	32				130	
4	Rectifying MOS-FET	TR501	25	27	24				150	Junction Temp.
5	Rectifying MOS-FET	TR502	26	23	22				150	Junction Temp.
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(Side view)

Fig.1.1 Mounting method