

Date : Apr.1,2005

Temperature increase of main components

Model: SFS3048 series

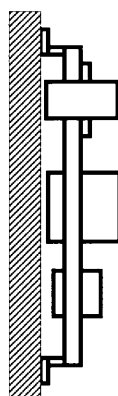
1. Conditions

(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	5V		
1	Input choke coil	L101	30	30	31	31	31	38	37	125	
2	Switching MOS-FET	TR101	38	39	38	40	43	51	50	150	Junction Temp.
3	Power control IC	IC101	32	33	30	33	31	41	40	150	Junction Temp.
4	Transformer (PWB)	T101	42	42	42	41	46	54	48	130	
5	Rectifying MOS-FET	TR501	43	46	43	43	48	54	47	150	Junction Temp.
6	Rectifying MOS-FET	TR502	44	45	43	44	46	56	49	150	Junction Temp.
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output side



input side

(Side view)

Fig.1.1 Mounting method

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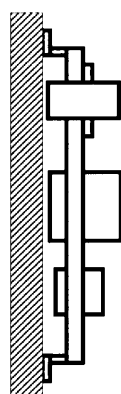
1. Conditions

- (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]								
			10V	12V	15V						
1	Input choke coil	L101	38	37	38					125	
2	Switching MOS-FET	TR101	54	49	53					150	Junction Temp.
3	Power control IC	IC101	41	38	40					150	Junction Temp.
4	Transformer (PWB)	T101	52	48	53					130	
5	Rectifying MOS-FET	TR501	52	48	51					150	Junction Temp.
6	Rectifying MOS-FET	TR502	53	48	51					150	Junction Temp.
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input side

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