

Date : Mar 28,2005

Temperature increase of main components

Model: SFS3024 series

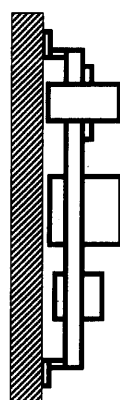
1. Conditions

- (1) Input : DC18-36V
 (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	2.5V	3.3V	5V	12V		
1	Input choke coil	L101	21	23	20	30	30	28	31	125	
2	Switching MOS-FET	TR101	27	31	29	36	45	41	41	150	Junction Temp.
3	Power control IC	IC101	25	27	26	30	36	33	33	150	Junction Temp.
4	Transformer (PWB)	T101	33	34	31	37	45	40	39	130	
5	Rectifying MOS-FET	TR501	35	39	33	38	46	40	36	150	Junction Temp.
6	Rectifying MOS-FET	TR502	35	37	30	36	47	40	36	150	Junction Temp.
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

output side



input side

(Side view)

Fig.1.1 Mounting method

Date : Mar 28,2005

Temperature increase of main components

Model: SFS3024 series

1. Conditions

- (1) Input : DC18-36V
 (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]								
			15V								
1	Input choke coil	L101	39							125	
2	Switching MOS-FET	TR101	41							150	Junction Temp.
3	Power control IC	IC101	32							150	Junction Temp.
4	Transformer (PWB)	T101	41							130	
5	Rectifying MOS-FET	TR501	39							150	Junction Temp.
6	Rectifying MOS-FET	TR502	39							150	Junction Temp.
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

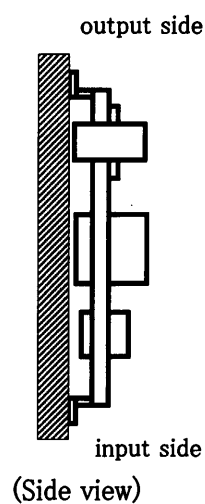


Fig.1.1 Mounting method