

Date : Mar.25,2005

Temperature increase of main components

Model: SUS/SUW1005

1. Conditions

- (1) Input :DC 4.5 - 9 [V]
 (2) Output :Rated output
 (3) Cooling method :Convection cooling
 (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]							
			3.3V	5V	12V	15V	$\pm 12V$	$\pm 15V$		
1	Switching Transistor	TR31	49	49	44	43	45	41	150	Junction Temp.
2	Transformer	T11	62	57	56	53	52	51	155	
3	Rectifying MOS-FET	TR51	56	46	—	—	—	—	150	Junction Temp.
4	Rectifying Diode	D52	52	43	46	44	36	33	150	Junction Temp.
5	Photocoupler	PC11	37	38	34	32	30	27	125	Junction Temp.
6	Input Choke Coil	L11	46	44	41	38	40	37	120	
7	Output Choke Coil	L51	43	38	29	24	25	23	120	
8	Output Capacitor	C51	48	41	36	31	32	29	125	
9	Power Control IC	IC11	41	42	39	37	38	35	150	
10	Current Transformer	T12	39	38	35	32	35	31	155	
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										



(Side view)

Fig.1.1 Mounting method
(Normal position)