

Mar.13,2025

Temperature increase of main components: 主要部品温度上昇

Model: MU□1R524□□ / MU□324□□

1. Conditions

- (1) Input :DC 18 ~ 36 [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) [deg]							Rated temp. [°C]	Reference
			MUS1R5	MUS3				MUW3			
			5V	3.3V	5V	12V	15V	$\pm 12V$	$\pm 15V$		
1	Switching MOS-FET	TR11	27	29	38	30	34	31	35	150	Junction Temp.
2	Input Choke Coil	L11	17	20	27	21	22	19	26	125	
3	Output Choke Coil	L51	17	24	27	21	25	22	22	125	
4	Rectified diode(Output)	D51	24	31	37	28	31	30	28	150	Junction Temp.
5	Transformer	T11	24	30	36	34	35	36	36	155	
6	Optocoupler	PC31	21	26	18	27	28	27	29	135	Junction Temp.
7	Case	CASE	21	23	33	22	28	24	26	130	Top Surface Center
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

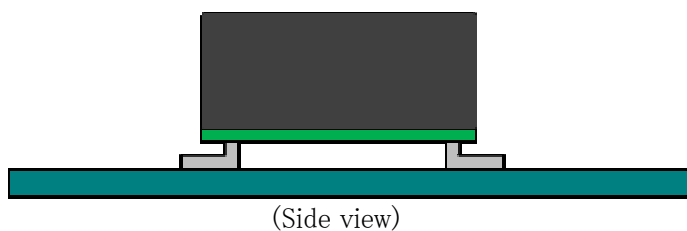


Fig.1.1 Mounting method
(Normal position)