

Date : Jan.30,2017

## Temperature increase of main components

Model: MGFS1R548□□

### 1. Conditions

- (1) Input :DC 48 [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 ( $\Delta T$ )				Rated temp. [°C]	Reference
			[deg]					
			3.3V	5V	12V	15V		
1	Switching MOS-FET	TR11	14	15	14	14	150	Junction Temp.
2	Switching MOS-FET	TR101	15	17	14	15	150	Junction Temp.
3	Power control IC	IC12	15	17	15	16	150	Junction Temp.
4	Rectified diode (Output)	D201	17	18	16	17	150	Junction Temp.
5	Rectified diode (Output)	D202	18	19	—	—	150	Junction Temp.
6	Photocoupler	PC11	14	16	14	15	125	Junction Temp.
7	Transformer (PCB)	P2	15	18	15	16	130	
8	CASE	CASE	14	16	14	15	110	Top Surface Center
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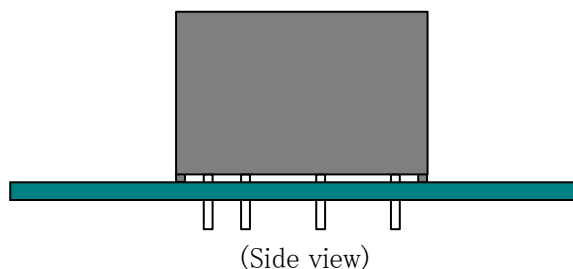


Fig.1.1 Mounting method  
(Normal position)