

Temperature increase of main components

Model: MGS3012□□

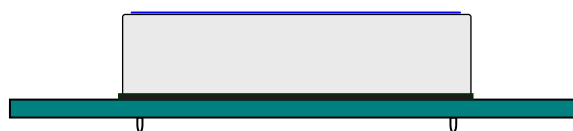
1. Conditions

- (1) Input :DC 12 [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

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		
1	Transformer	T101	–	45	–	50	150	
2	Switching MOS-FET	TR101	–	45	–	51	150	Junction Temp.
3	Rectified MOS-FET(Output)	TR211	–	46	–	48	150	Junction Temp.
4	Rectified MOS-FET(Output)	TR221	–	45	–	47	150	Junction Temp.
5	Output Choke Coil	L201	–	45	–	49	150	
6	MOS-FET	TR222	–	42	–	48	150	Junction Temp.
7	Case	–	–	38	–	41	–	
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								



(Side view)

Fig.1.1 Mounting method
(Normal position)