

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

Model: R15A

## 1. Conditions

- (1) Input :AC 85 ~ 132 [V]  
 (2) Output :Rated output  
 (3) Mounting method :Shown as Fig.1.1

## 2. Result

| No. | Parts name              | Symbol No. | Increase ( $\Delta T$ ) |    |     |  |  |  | Rated temp. [°C] | Reference      |
|-----|-------------------------|------------|-------------------------|----|-----|--|--|--|------------------|----------------|
|     |                         |            | [deg]                   |    |     |  |  |  |                  |                |
|     |                         |            | 3V                      | 9V | 18V |  |  |  |                  |                |
| 1   | Line Filter             | L11        | 29                      | 24 | 24  |  |  |  | 120              |                |
| 2   | Rectifier(Input)        | SS11       | 20                      | 38 | 36  |  |  |  | 150              | Junction Temp. |
| 3   | Switching Transistor    | TR12       | 54                      | 44 | 44  |  |  |  | 150              | Junction Temp. |
| 4   | Transformer             | T11        | 38                      | 48 | 44  |  |  |  | 120              |                |
| 5   | Output Choke            | L51        | 52                      | 40 | 23  |  |  |  | 120              |                |
| 6   | Rectified Diode(Output) | D51        | 57                      | 68 | 44  |  |  |  | 150              | Junction Temp. |
| 7   | Input Capacitor         | C12        | 18                      | 21 | 20  |  |  |  | 105              |                |
| 8   | Output Capacitor        | C52        | 34                      | 28 | 20  |  |  |  | 105              |                |
| 9   | Output Capacitor        | C53        | 33                      | 28 | —   |  |  |  | 105              |                |
| 10  | Output Capacitor        | C61        | 13                      | 16 | 10  |  |  |  | 105              |                |
| 11  | Output Capacitor        | C59        | 17                      | 12 | 12  |  |  |  | 105              |                |
| 12  |                         |            |                         |    |     |  |  |  |                  |                |
| 13  |                         |            |                         |    |     |  |  |  |                  |                |
| 14  |                         |            |                         |    |     |  |  |  |                  |                |
| 15  |                         |            |                         |    |     |  |  |  |                  |                |
| 16  |                         |            |                         |    |     |  |  |  |                  |                |
| 17  |                         |            |                         |    |     |  |  |  |                  |                |
| 18  |                         |            |                         |    |     |  |  |  |                  |                |
| 19  |                         |            |                         |    |     |  |  |  |                  |                |
| 20  |                         |            |                         |    |     |  |  |  |                  |                |

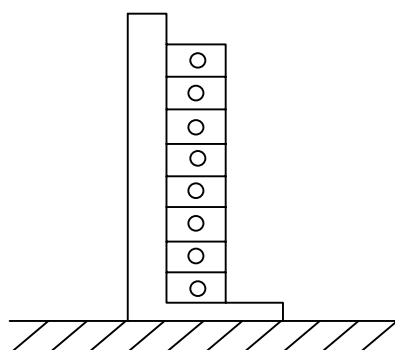


Fig.1.1 Mounting method  
(Normal position)