

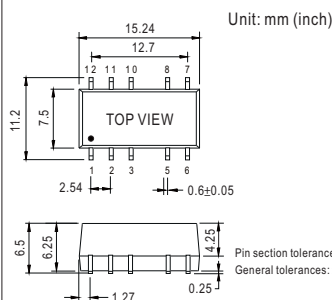
- Features :
- 3000VDC I/O isolation
  - Internal SMD technology
  - Protection: Short circuit
  - Non-conductive plastic case
  - Cooling by free air convection
  - SMD package styles
  - 100% full load burn-in test
  - Low cost / High reliability
  - Approved: UL / CUL
  - 1 year warranty

## SPECIFICATION



| MODEL NO.    | F0505T-1W                    | F1205T-1W                                                                | F0509T-1W    | F1209T-1W  | F0512T-1W    | F1212T-1W  | F0515T-1W    | F1215T-1W  |
|--------------|------------------------------|--------------------------------------------------------------------------|--------------|------------|--------------|------------|--------------|------------|
| ORDER NO.    | SFT01L-05                    | SFT01M-05                                                                | SFT01L-09    | SFT01M-09  | SFT01L-12    | SFT01M-12  | SFT01L-15    | SFT01M-15  |
| OUTPUT       | DC OUTPUT VOLTAGE            | 5V                                                                       |              | 9V         |              | 12V        |              | 15V        |
|              | OUTPUT CURRENT RANGE         | 0 ~ 200mA                                                                |              | 0 ~ 111mA  |              | 0 ~ 84mA   |              | 0 ~ 67mA   |
|              | EFFICIENCY                   | 70%                                                                      | 70%          | 75%        | 73%          | 78%        | 73%          | 79%        |
|              | RATED POWER                  | 1W                                                                       |              |            |              |            |              | 74%        |
|              | RIPPLE & NOISE (max.) Note.2 | 100mVp-p                                                                 |              |            |              |            |              |            |
|              | LINE REGULATION Note.3       | ±1.2% for 1% input variation                                             |              |            |              |            |              |            |
|              | LOAD REGULATION Note.4       | ±8.0%                                                                    |              |            |              |            |              |            |
|              | VOLTAGE TOLERANCE            | ±8.0%                                                                    |              |            |              |            |              |            |
| INPUT        | SWITCHING FREQUENCY(Typ.)    | 100KHz                                                                   |              |            |              |            |              |            |
|              | VOLTAGE RANGE                | 4.5 ~ 5.5V                                                               | 10.8 ~ 13.2V | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 4.5 ~ 5.5V |
|              | NORMAL VOLTAGE               | 5V                                                                       | 12V          | 5V         | 12V          | 5V         | 12V          | 5V         |
|              | INPUT CURRENT                | Full load                                                                | 264mA        | 123mA      | 264mA        | 123mA      | 264mA        | 123mA      |
|              |                              | No load                                                                  | 30mA         | 19mA       | 30mA         | 19mA       | 30mA         | 19mA       |
| PROTECTION   | PROTECTION                   | Fuse recommended                                                         |              |            |              |            |              |            |
|              | OVERLOAD                     | Momentary                                                                |              |            |              |            |              |            |
|              | SHORT CIRCUIT                | Momentary                                                                |              |            |              |            |              |            |
| ENVIRONMENT  | WORKING TEMP.                | -40 ~ +85°C (Refer to "Derating Curve")                                  |              |            |              |            |              |            |
|              | WORKING HUMIDITY             | 20% ~ 90% RH non-condensing                                              |              |            |              |            |              |            |
|              | STORAGE TEMP., HUMIDITY      | -40 ~ +105°C, 10 ~ 95% RH                                                |              |            |              |            |              |            |
|              | TEMP. COEFFICIENT            | ±0.03% / °C (0 ~ 50°C)                                                   |              |            |              |            |              |            |
|              | VIBRATION                    | 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes |              |            |              |            |              |            |
| SAFETY & EMC | SAFETY STANDARDS             | UL60950-1, CSAC22.2                                                      |              |            |              |            |              |            |
|              | WITHSTAND VOLTAGE            | I/P-O/P: 3KVDC                                                           |              |            |              |            |              |            |
|              | ISOLATION RESISTANCE         | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH                              |              |            |              |            |              |            |
| OTHERS       | MTBF                         | 500khrs min. MIL-HDBK-217F(25°C)                                         |              |            |              |            |              |            |
|              | DIMENSION                    | 15.24*7.5*6.5mm or 0.6**0.295**0.24" inch (L*W*H)                        |              |            |              |            |              |            |
|              | WEIGHT                       | 1.7g                                                                     |              |            |              |            |              |            |

### Mechanical Specification

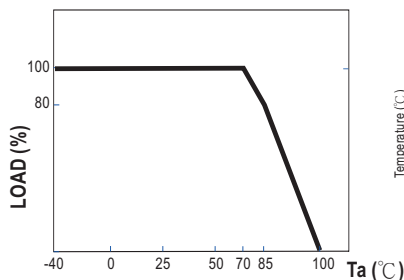


### Pin Configuration

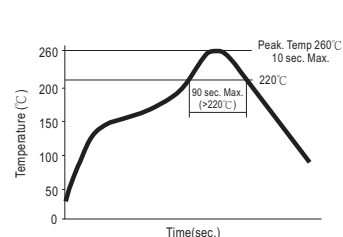
| Pin No. | Output |
|---------|--------|
| 1       | -Vin   |
| 2       | +Vin   |
| 3       | NC     |
| 5       | -Vout  |
| 6       | NC     |
| 7       | NC     |
| 8       | +Vout  |
| 10      | NC     |
| 11      | NC     |
| 12      | NC     |

NC : Please DO NOT connect to other pins.

### Derating Curve



### Reflow Soldering Curve



### NOTE

- 1.All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
- 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- 3.Line regulation is measured from low line to high line at rated load.
- 4.Load regulation is measured from 20% to 100% rated load.