



Automatización Eléctrica

Especialistas en Automatización

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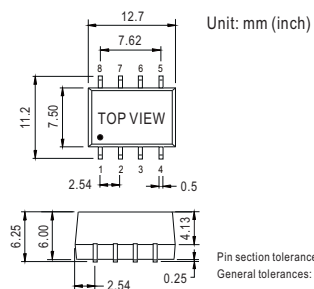
- Features :
 - 1000VDC I/O isolation
 - Internal SMD technology
 - Protection: Short circuit
 - Cooling by free air convection
 - Non-conductive plastic case
 - SMD package styles
 - 100% full load burn-in test
 - Low cost / High reliability
 - Approved: UL / CUL
 - 1 year warranty



SPECIFICATION

| MODEL NO. | B0505T-1W | B1205T-1W | B0509T-1W | B1209T-1W | B0512T-1W | B1212T-1W | B0515T-1W | B1215T-1W | | |
|--------------|--|--|--------------|------------|--------------|------------|--------------|------------|--------------|-------|
| ORDER NO. | SBT01L-05 | SBT01M-05 | SBT01L-09 | SBT01M-09 | SBT01L-12 | SBT01M-12 | SBT01L-15 | SBT01M-15 | | |
| OUTPUT | DC OUTPUT VOLTAGE | 5V | | 9V | | 12V | | 15V | | |
| | OUTPUT CURRENT RANGE | 0 ~ 200mA | | 0 ~ 111mA | | 0 ~ 84mA | | 0 ~ 67mA | | |
| | EFFICIENCY | 70% | 72% | 74% | 75% | 74% | 75% | 75% | | |
| | RATED POWER | 1W | | | | | | | | |
| | 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 | 10.8 ~ 13.2V | |
| | NORMAL VOLTAGE | 5V | 12V | 5V | 12V | 5V | 12V | 5V | 12V | |
| | INPUT CURRENT | Full load | 292mA | 120mA | 292mA | 120mA | 292mA | 120mA | 292mA | 120mA |
| | | No load | 29mA | 15mA | 29mA | 15mA | 29mA | 15mA | 29mA | 15mA |
| PROTECTION | Fuse recommended | | | | | | | | | |
| PROTECTION | OVERLOAD | Momentary Protection type : Broken | | | | | | | | |
| | SHORT CIRCUIT | Momentary Protection type : Broken | | | | | | | | |
| 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, CSA C22.2 | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P: 1KVDC | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | |
| OTHERS | MTBF | 500khrs min. MIL-HDBK-217F(25°C) | | | | | | | | |
| | DIMENSION | 12.7*7.5*6.0mm or 0.50"*0.30"*0.24" inch (L*W*H) | | | | | | | | |
| | WEIGHT | 1.3g | | | | | | | | |

■ Mechanical Specification

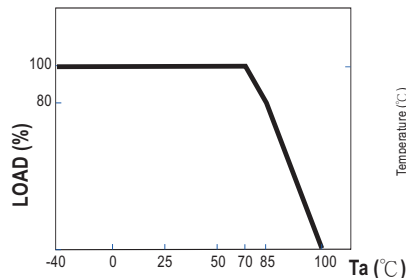


■ Pin Configuration

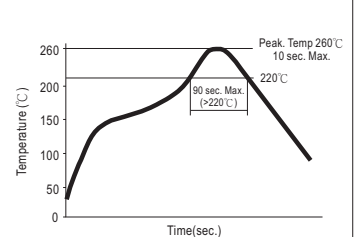
| Pin No. | Output |
|---------|--------|
| 1 | -Vin |
| 2 | +Vin |
| 3 | NC |
| 4 | -Vout |
| 5 | +Vout |
| 6 | NC |
| 7 | NC |
| 8 | NC |

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 0.1µf & 47µf 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.



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| Product | Code | Reference | Product link |
|---|----------|-----------|----------------------------|
| Input: 4,5-5,5 DC, Output: 1, V1: 5, A1: 0,2 | SBT01L05 | SBT01L-05 | Buy on EAN |
| Input: 4,5-5,5 DC, Output: 1, V1: 9, A1: 0,111 | SBT01L09 | SBT01L-09 | Buy on EAN |
| Input: 4,5-5,5 DC, Output: 1, V1: 12, A1: 0,084 | SBT01L12 | SBT01L-12 | Buy on EAN |
| Input: 4,5-5,5 DC, Output: 1, V1: 15, A1: 0,067 | SBT01L15 | SBT01L-15 | Buy on EAN |
| Input: 10,8-13,2 DC, Output: 1, V1: 5, A1: 0,2 | SBT01M05 | SBT01M-05 | Buy on EAN |
| Input: 10,8-13,2 DC, Output: 1, V1: 9, A1: 0,111 | SBT01M09 | SBT01M-09 | Buy on EAN |
| Input: 10,8-13,2 DC, Output: 1, V1: 12, A1: 0,084 | SBT01M12 | SBT01M-12 | Buy on EAN |
| Input: 10,8-13,2 DC, Output: 1, V1: 15, A1: 0,067 | SBT01M15 | SBT01M-15 | Buy on EAN |