



1W DC-DC Unregulated Single Output Converter

SBT01 series



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

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

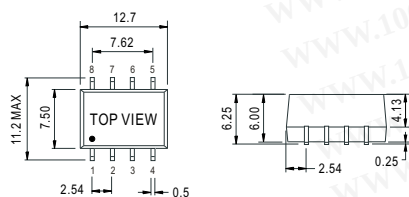
SPECIFICATION



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	$\pm 1.2\%$ for 1% input variation						
	LOAD REGULATION Note.4	$\pm 8.0\%$						
	VOLTAGE TOLERANCE	$\pm 8.0\%$						
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	292mA	120mA	292mA	120mA	292mA	120mA
		No load	29mA	15mA	29mA	15mA	29mA	15mA
PROTECTION	PROTECTION	Fuse recommended						
	OVERLOAD	Momentary						
	SHORT CIRCUIT	Protection type : Broken						
ENVIRONMENT	WORKING TEMP.	-40 ~ +85°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20% ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +105°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	$\pm 0.03\% / ^\circ\text{C}$ (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

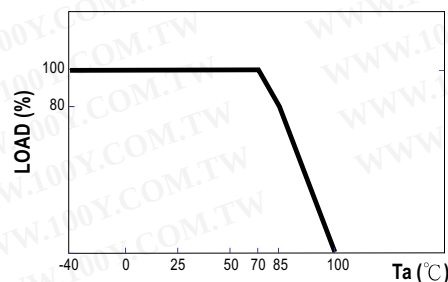
Unit: mm (inch)



Pin Configuration

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

Derating 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.