



- 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

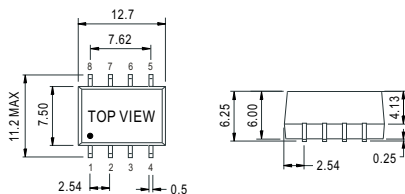
## SPECIFICATION



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%	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%								
SWITCHING FREQUENCY(Typ.)		100KHz									
INPUT	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 output load 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

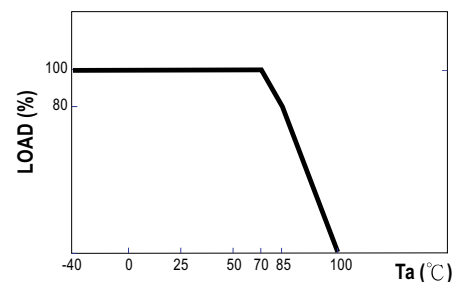
Unit: mm (inch)



### 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.

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