



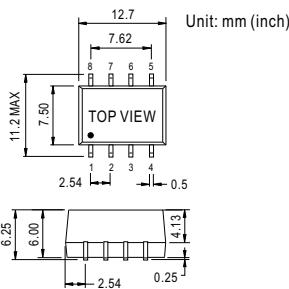
- Features :
 - 1000VDC I/O isolation
 - Internal SMD technology
 - Protection: Short circuit
 - Cooling by free air convection
 - Non-conductive plastic case
 - SMD package styles
 - 100% full load burn-in test
 - Low cost / High reliability
 - Approved: UL / CUL
 - 1 year warranty



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			
	OUTPUT CURRENT RANGE		0 ~ 200mA		0 ~ 111mA		0 ~ 84mA			
	EFFICIENCY		70%	72%	74%	75%	74%	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	
	NORMAL VOLTAGE		5V	12V	5V	12V	5V	12V	5V	
	INPUT CURRENT	Full load	292mA	120mA	292mA	120mA	292mA	120mA	292mA	
		No load	29mA	15mA	29mA	15mA	29mA	15mA	29mA	
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

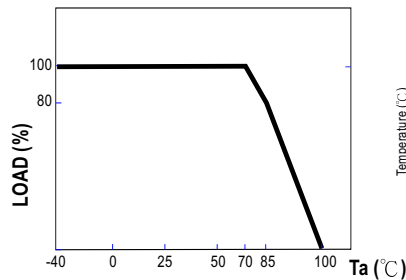


■ Pin Configuration

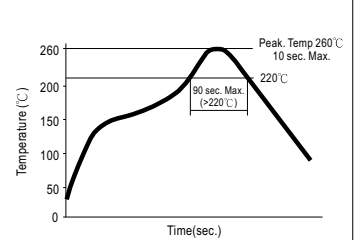
Pin No.	Output
1	-Vin
2	+Vin
3	NC
4	-Vout
5	+Vout
6	NC
7	NC
8	NC

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 0.1uf & 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Mean Well:](#)

[SBT01L-05](#) [SBT01L-09](#) [SBT01L-12](#) [SBT01L-15](#) [SBT01M-05](#) [SBT01M-09](#) [SBT01M-12](#) [SBT01M-15](#)