

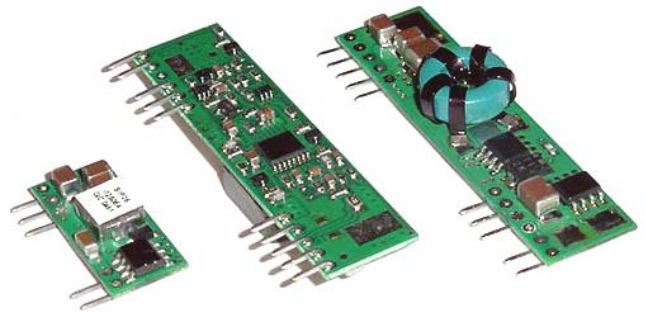
## BSIP16-12

## BSMT16-12 Series

## 16A SIP & SMT 12V Input DC-DC Converters

### Features

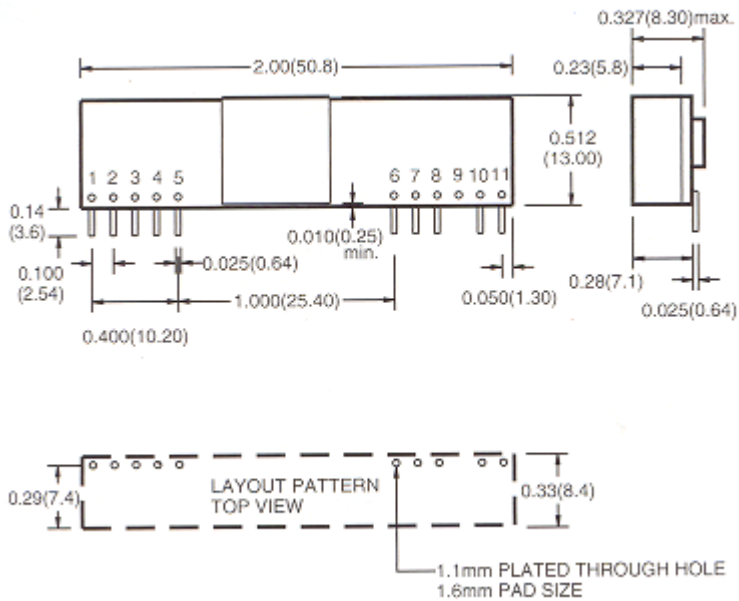
- Industry standard pin out
- High efficiency to 94%
- 300KHz switching frequency
- 9.0 – 14 Vdc input range
- 0.75-5.0Vdc wide output range
- Over temperature protection
- Continuous short circuit protection
- Remote On/Off
- Cost efficient open frame design
- UL / cUL 60950 certified



Model Number	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency
				No Load	Full Load	
BSIP16-12-075 / BSMT16-12-075	9.0 -14 Vdc	0.75 Vdc	16A	40 mA	1299 mA	77
BSIP16-12-120 / BSMT16-12-120	9.0 -14 Vdc	1.2 Vdc	16A	50 mA	1928 mA	83
BSIP16-12-150 / BSMT16-12-150	9.0 -14 Vdc	1.5 Vdc	16A	50 mA	2326 mA	86
BSIP16-12-180 / BSMT16-12-180	9.0 -14 Vdc	1.8 Vdc	16A	60 mA	2727 mA	88
BSIP16-12-200 / BSMT16-12-200	9.0 -14 Vdc	2.0 Vdc	16A	60 mA	2996 mA	89
BSIP16-12-250 / BSMT16-12-250	9.0 -14 Vdc	2.5 Vdc	16A	65 mA	3704 mA	90
BSIP16-12-330 / BSMT16-12-330	9.0 -14 Vdc	3.3 Vdc	16A	75 mA	4783 mA	92
BSIP16-12-500 / BSMT16-12-500	9.0 -14 Vdc	5.0 Vdc	16A	75 mA	7092 mA	94



## SIP Outline Inforamtion



Dimensions are in Inches (millimeters)

Tolerances: .XX ± 0.2" (.X ± 0.5), unless otherwise noted

.XXX ± 0.01" (.XX ± 0.25)

PIN CONNECTION	
Pin	Function
1	+ Output
2	+ Output
3	+ Sense
4	+ Output
5	Common
6	Common
7	+ V Input
8	+ V Input
9	No Pin
10	Trim
11	On / Off Control

Temperature Typical Derating Curve

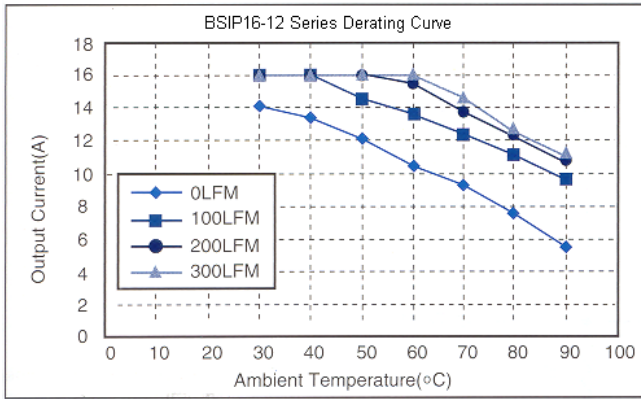


Fig 1.: Typical Derating Curve of BSIP16-12 series

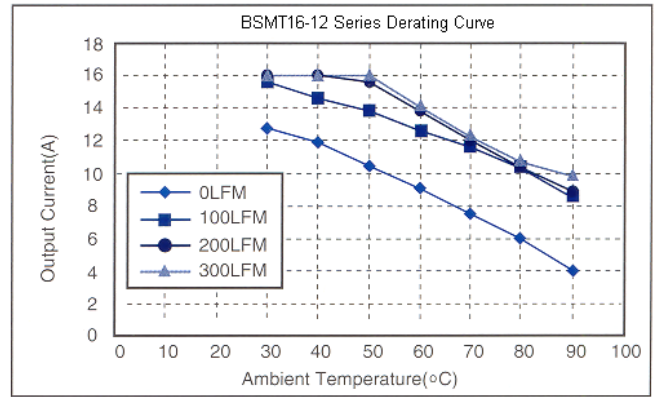
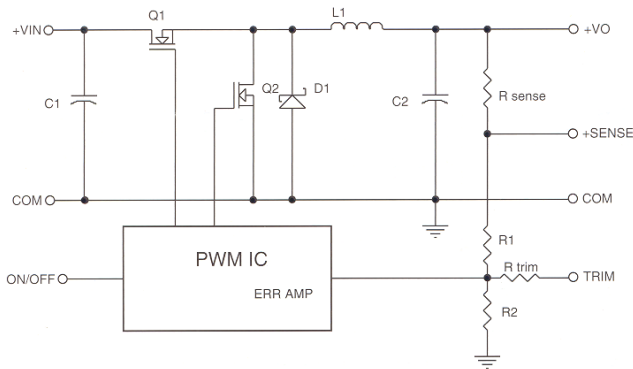


Fig 2.: Typical Derating Curve of BSMT16-12 series

Trim Resistor Values



Vo (set) (V)	Rtrim (Kohm)
0.75	Open
1.2	22.33
1.5	13.0
1.8	9.0
2	7.4
2.5	5.0
3.3	3.12
3.63	1.47

Fig 3.: Simplified Schematic

The information and specifications contained in this brief are believed to be accurate and reliable at the time of publication. Specifications are subject to change without notice. Refer to product specification sheet for performance characteristics and application guidelines.