

NEW

B Series

Up to 25 Watts Single Output DC/DC Converters



Features:

- Efficiency to 85%
- 4:1 input range
- Low profile package (to 24 Watts)
- Six-sided continuous shielding
- Non-isolated
- Regulated output
- Two-year warranty



**SEMICONDUCTOR
CIRCUITS, INC.**

A Subsidiary of Powertec, Inc.

B Series

Product Specifications

Specifications:

Input Voltage Range	See table
Input Reflected Ripple	50 mA p-p (typ.)
Input Filtering	L-C Type
Output Voltage Tolerance	±1%
Ripple and Noise	10 mV rms (typ.)
Trim Adjustability	50 mV p-p
Short Circuit Protection	±10% (typ.)
Regulation:	Current Limit
Line	.5%
Load	.5%
Efficiency	80% (typ.) (5 V version)
	85% (typ.) (12 V version)
I/O Isolation	Non-isolated
Switching Frequency	60-65 kHz
Case: Metal with Non-Conductive Base	Six-sided Continuous Shielding
Size	2.5" x 3.0" x .4" (15 & 24 watts)
	2.5" x 3.0" x .83" (25 watts)
Operating Temp Range	-25°C to +71°C
Storage Temp Range	-40°C to +105°C
Remote On/Off Control	All Models
Overvoltage Protection	All Models

Ordering Information:

Input Voltage		Output Voltage	Output Current	Model Number	Case
Nominal	Range				
18 V	9-36 V	5 Vdc	3000 mA	BA11-300-18	A
18 V	9-36 V	5 Vdc	5000 mA	BA11-500-18	B
18 V	16-36 V	12 Vdc	2000 mA	BA12-200-18	A

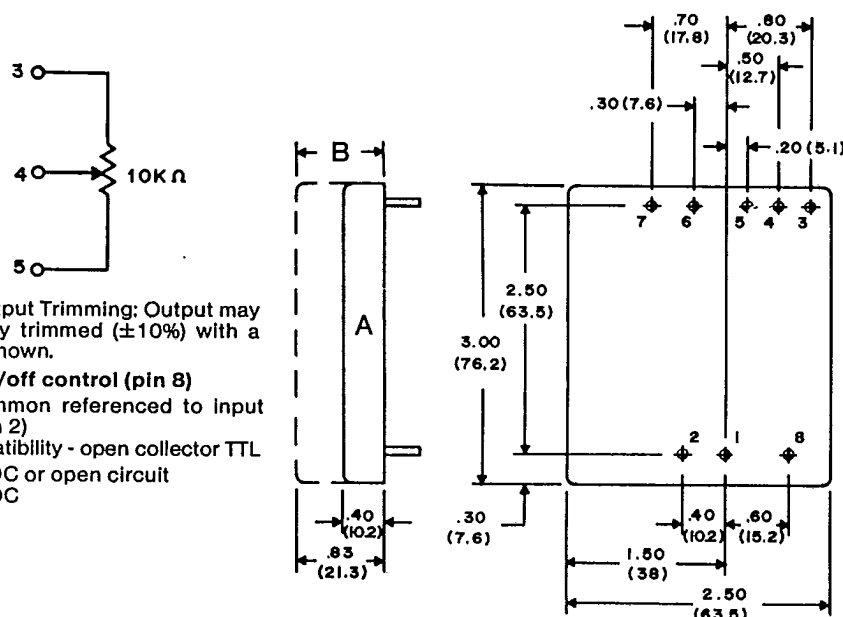
Pin Connection:

Pin	
1	+ Input
2	- Input
3	Trim Down
4	Output Trim
5	Trim Up
6	+ Output
7	- Output
8	TTL Remote Shutdown

Notes:
Eight pins 0.040 (1.0) dia. x 0.20 (5.1) lg min.
All dimensions are in inches and (mm).

External Output Trimming: Output may be externally trimmed (±10%) with a trimpot as shown.

Remote on/off control (pin 8)
Control common referenced to input minus (pin 2)
Logic compatibility - open collector TTL
On > 2.4 VDC or open circuit
Off < 1.2 VDC



Specifications subject to change without notice.

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