

## Features

- 15W Isolated Output
- Efficiency to 83%
- 2:1 Input Range
- Continuous Short Circuit Protection
- Remote On/Off Control
- Meets EN55022 Class A, Conducted



| Model Number    | Input Voltage | Output Voltage | Output Current | Input Current |           |            |
|-----------------|---------------|----------------|----------------|---------------|-----------|------------|
|                 |               |                |                | No Load       | Full Load | Efficiency |
| VBED15-D12-S5   | 9-18VDC       | 5VDC           | 3000mA         | 20mA          | 1602mA    | 78%        |
| VBED15-D12-S12  | 9-18VDC       | 12VDC          | 1250mA         | 20mA          | 1524mA    | 82%        |
| VBED15-D12-S 15 | 9-18VDC       | 15VDC          | 1000mA         | 20mA          | 1524mA    | 82%        |
| VBED15-D12-D12  | 9-18VDC       | ±12VDC         | ±625mA         | 30mA          | 1506mA    | 83%        |
| VBED15-D12-D15  | 9-18VDC       | ±15VDC         | ±500mA         | 30mA          | 1506mA    | 83%        |
| VBED15-D12-D5   | 9-18VDC       | ±5VDC          | ±1500mA        | 30mA          | 1563mA    | 80%        |
| VBED15-D12-S3R3 | 9-18VDC       | 3.3VDC         | 3000mA         | 20mA          | 1086mA    | 76%        |
| VBED15-D24-S5   | 18-36VDC      | 5VDC           | 3000mA         | 20mA          | 780mA     | 80%        |
| VBED15-D24-S12  | 18-36VDC      | 12VDC          | 1250mA         | 20mA          | 762mA     | 82%        |
| VBED15-D24-S15  | 18-36VDC      | 15VDC          | 1000mA         | 20mA          | 762mA     | 82%        |
| VBED15-D24-D12  | 18-36VDC      | ±12VDC         | ±625mA         | 25mA          | 755mA     | 83%        |
| VBED15-D24-D15  | 18-36VDC      | ±15VDC         | ±500mA         | 25mA          | 755mA     | 83%        |
| VBED15-D24-D5   | 18-36VDC      | ±5VDC          | ±1500mA        | 25mA          | 772mA     | 81%        |
| VBED15-D24-S3R3 | 18-36VDC      | 3.3VDC         | 3000mA         | 20mA          | 543mA     | 76%        |
| VBED15-D48-S5   | 36-72VDC      | 5VDC           | 3000mA         | 15mA          | 391mA     | 80%        |
| VBED15-D48-S12  | 36-72VDC      | 12VDC          | 1250mA         | 15mA          | 377mA     | 83%        |
| VBED15-D48-S15  | 36-72VDC      | 15VDC          | 1000mA         | 15mA          | 377mA     | 83%        |
| VBED15-D48-D12  | 36-72VDC      | ±12VDC         | ±625mA         | 20mA          | 377mA     | 83%        |
| VBED15-D48-D15  | 36-72VDC      | ±15VDC         | ±500mA         | 20mA          | 377mA     | 83%        |
| VBED15-D48-D5   | 36-72VDC      | ±5VDC          | ±1500mA        | 20mA          | 381mA     | 82%        |
| VBED15-D48-S3R3 | 36-72VDC      | 3.3VDC         | 3000mA         | 15mA          | 271mA     | 76%        |

**Input**

|                     |         |        |
|---------------------|---------|--------|
| Input Voltage Range | 12V     | 9-18V  |
|                     | 24V     | 18-36V |
|                     | 48V     | 36-72V |
| Input Filter Type   | PI Type |        |

**Output**

|                                      |                               |                |
|--------------------------------------|-------------------------------|----------------|
| Voltage Accuracy                     |                               |                |
| Single Output                        |                               | ±1.0% max.     |
| Dual + Output                        |                               | ±1.0% max.     |
| Dual - Output                        |                               | ±1.0% max.     |
| Voltage Balance (Dual)               | ±1.0% max.                    |                |
| Transient Response                   |                               |                |
| Single Output: 25% Step Load Change  |                               | <500m S        |
| Dual Output: FL-1/2L, ±1% Error Band |                               | <500m S        |
| Ripple & Noise                       | 20MHz BW, w/o .1m F on Output | 75mV p-p., max |
| Temperature Coefficient              |                               | ±0.02%/°C      |
| Short Circuit Protection             |                               | Continuous     |
| Line Regulation <sup>1</sup>         | Single/Dual Output            | ±0.2% max      |
| Load Regulation <sup>2</sup>         | Single/Dual Output            | ±1.0% max      |

**General Specifications**

|                             |   |
|-----------------------------|---|
| Efficiency                  | see table                                       |
| Isolation Voltage           | 500VDC min.                                     |
| Isolation Resistance        | 10 <sup>8</sup> ohms min                        |
| Switching Frequency         | 300KHz, Typical                                 |
| Operating Temperature Range | -25°C to +71°C                                  |
| Case Temperature            | 100°C max.                                      |
| Storage Temperature         | -40°C to +100°C                                 |
| EMI/RFI                     | Six sided Continuous Shield                     |
| Dimensions                  | 2.0x1.0x0.4 inches<br>(50.8x25.4x10.2mm)        |
| Case Material               | Black Coated Copper with<br>Non-Conductive Base |

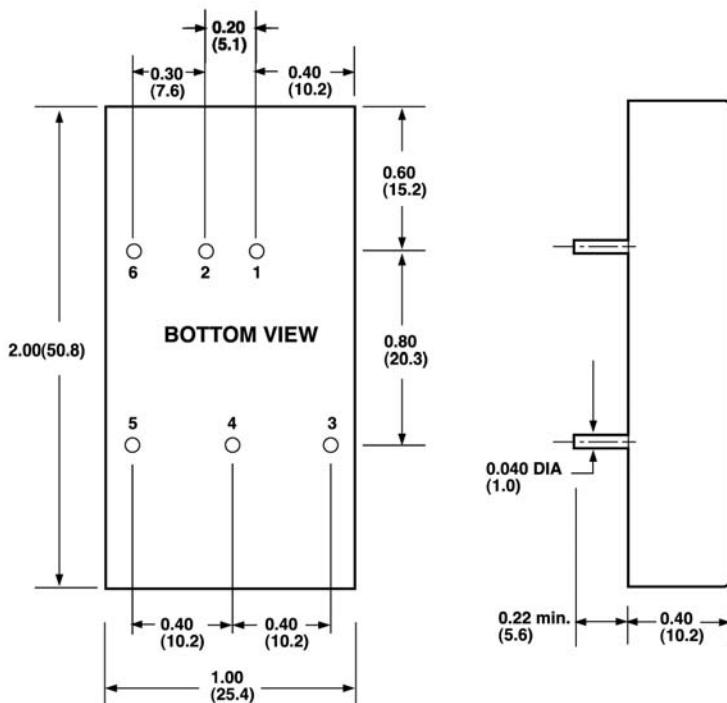
**OPTIONS:**
**NOTES:**

1. Measured from high line to low line
2. Measured from full load to 1/4 load

1. Suffix "-1" to the Model number for Remote On/Off Control:
 

|                     |                            |
|---------------------|----------------------------|
| Logic Compatibility | CMOS or Open Collector TTL |
| Output-ON           | >+5.5VDC or Open Circuit   |
| Output-OFF          | <1.8VDC                    |
| Control Common      | Referenced to Input Minus  |
2. Suffix "A" to the Model Number for Output Voltage adj feature. Single Output Only. Adj. range ±10%.

All Dimensions In Inches(mm)  
Tolerance .xx=  $\pm .04$ , .xxx=  $\pm .010$

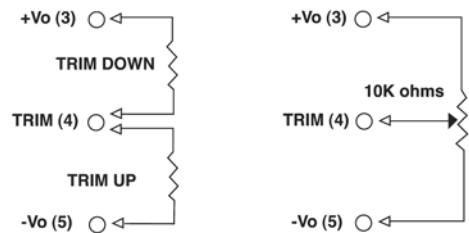


| PIN CONNECTION |          |
|----------------|----------|
| Pin            | Function |

1. +V Input
2. -V Input
3. +V Output
4. Common/NP/Trim (Option)
5. -V Output
6. NP/Remote (Option)

NP\*-NO PIN ON SINGLE OUTPUT

#### External Output Trim



All Specifications Typical At Nominal Line, Full Load and 25°C Unless Otherwise Noted.

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