

# BW Series Wide Range Input Regulated Single/Dual Output 0.5W ~ 2.0W



- SIL 8pin Package 4.5~9.0V 9.0~18.0V or 18.0~24.0V Wide Range Input
- Output Power Rate From 1.0W To 2.0W Available
- No Heat Sink Required
- Internal SMD Construction
- No External Components Required
- Remote On/Off Control ( Option )

## Selection Guide

| Input Voltage Vdc  | Output Voltage Vdc | Output Current (mA) |         |         | Ripplr Noise mV | Series Number Selector Guide  | Rremarks                               |
|--------------------|--------------------|---------------------|---------|---------|-----------------|---|--|
|                    |                    | 0.5W                | 1.0W    | 2.0W    |                 |   |  |
| 4.5~9.0V (5.0V)    | 3.30               | 151.50              | 303.30  | 500.00  | 80.00           | <b>BWD-25050-1.0L</b><br>B : Case Type<br>W : Wide Range Input<br>D : Dual Output<br>24 : Input Voltage (18V~36V)<br>05 : Output Voltage<br>0 : Revision Code (0..9..A..Z)<br>1.0 : Output Power Rate<br>L : Leadfree Process | Customer And Special Design On Request |
|                    | 5.00               | 100.00              | 200.00  | 400.00  | 80.00           |   |  |
|                    | 12.00              | 41.60               | 83.30   | 166.60  | 100.00          |   |  |
| 9.0~18.0V (12.0V)  | 15.00              | 33.30               | 66.60   | 133.30  | 120.00          |   |  |
|                    | 24.00              | 20.80               | 41.60   | 83.30   | 150.00          |   |  |
| 18.0~36.0V (24.0V) | ±5.00              | ±50.00              | ±100.00 | ±200.00 | ±80.00          |   |  |
|                    | ±12.00             | ±20.80              | ±41.60  | ±83.30  | ±100.00         |   |  |
|                    | ±15.00             | ±16.60              | ±33.30  | ±66.60  | ±150.00         |   |  |

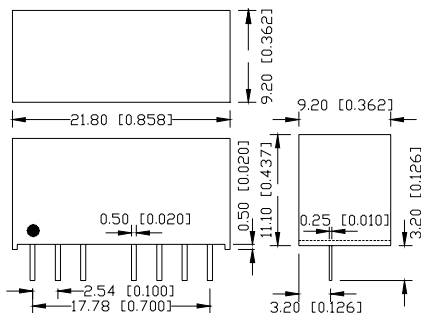
## Specifications All Specification Are Typical Nominal Line, Full Load And 25°C Unless Otherwise Notes.

| General Characteristics           |                    |                    |       |       |       |
|-----------------------------------|--------------------|--------------------|-------|-------|-------|
| Parameter                         | Conditions         | Min.               | Typ.  | Max.  | Units |
| Isolation Voltage                 | 60 Seconds         | 1000               | ----- | ----- | VDC   |
| Isolation Resistance              | 500VDC             | 1000               | ----- | ----- | Mohm  |
| Isolation Capacitance             | 100MHz,1V          | -----              | 60    | 100   | pF    |
| Switching Frequency               |                    | 80                 | 150   | 250   | KHz   |
| MTBF MIL-HDBK-217F @25°C          |                    | 0.8                | ----- | ----- | MHrs  |
| Absolute Maximum Ratings          |                    |                    |       |       |       |
| Parameter                         |                    | Min.               | Max.  | Units |       |
| Input Surge Voltage ( 1000ms )    | 5VDC Input Models  | -0.7               | 16.0  | VDC   |       |
|                                   | 12VDC Input Models | -0.7               | 25.0  | VDC   |       |
|                                   | 24VDC Input Models | -0.7               | 40.0  | VDC   |       |
| Wave Reflow Soldering Temperature |                    | 10 Sec. 265°C Max. |       |       |       |

| Environmental Characteristics |                          |       |       |       |       |
|-------------------------------|--------------------------|-------|-------|-------|-------|
| Parameter                     | Conditions               | Min.  | Max.  | Units |       |
| Operating Temperature         | Ambient                  | -40   | +71   | °C    |       |
| Storage Temperature           |                          | -40   | +125  | °C    |       |
| Humidity                      |                          | ----- | 95    | %     |       |
| Cooling                       | Free-Air Convection      |       |       |       |       |
| Output Characteristics        |                          |       |       |       |       |
| Parameter                     | Conditions               | Min.  | Typ.  | Max.  | Units |
| Line Regulation               | For 1% Of Vin            | ----- | ----- | ±0.5  | %     |
| Load Regulation               | 20% To 100%              | ----- | ----- | ±0.5  | %     |
| Out put Volt Balance          | Dual Out only            | ----- | ±1.0  | ±1.2  | %     |
| Out put Volt Accuracy         |                          | ----- | ----- | ±3.0  | %     |
| Short Circuit                 | Continuous Auto recovery |       |       |       |       |

Remote On/Off control ( Option ) : On/Under 0.6Vdc or Open Circuit / Off/Min. 2.7Vdc Max.15Vdc

## Dimensions And Pinout ( Unit : mm[inch]±/0.15mm )



| Pin Connection |                 |                 |
|----------------|-----------------|-----------------|
| Pin            | Single Out      | Dual Out        |
| 1              | -Input Voltage  | -Input Voltage  |
| 2              | +Input Voltage  | +Input Voltage  |
| 3              | Remote On/Off   | Remote On/Off   |
| 4              | Omitted         | Omitted         |
| 5              | N/C             | N/C             |
| 6              | +Output Voltage | +Output Voltage |
| 7              | -Output Voltage | Common          |
| 8              | Omitted         | -Output Voltage |

