



3 Watt DC/DC Converters Series DV31BE (DV300BE)



Features

- 3Watt Isolated Output
- Regulated Outputs
- 24-Pin DIP Package
- Low Ripple and Noise
- LC Input Filter
- Option SMD Mountable

MODEL NUMBER	INPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT [mA]	INPUT CURRENT NO LOAD [mA]	INPUT CURRENT FULL LOAD [mA]	CASE
DV305-05S600BM	5 ±10%	5	600	120	984	B
DV305-12S250BM		12	250			
DV305-15S200BM		15	200			
DV305-12D125BM		± 12	±125			
DV305-15D100BM		± 15	±100			
DV312-05S600BM	12 ±10%	5	600	60	410	B
DV312-12S250BM		12	250			
DV312-15S200BM		15	200			
DV312-12D125BM		± 12	±125			
DV312-15D100BM		± 15	±100			
DV324-05S600BM	24 ±10%	5	600	40	205	B
DV324-12S250BM		12	250			
DV324-15S200BM		15	200			
DV324-12D125BM		± 12	±125			
DV324-15D100BM		± 15	±100			
DV328-05S600BM	28 ±10%	5	600	35	176	B
DV328-12S250BM		12	250			
DV328-15S200BM		15	200			
DV328-12D125BM		± 12	±125			
DV328-15D100BM		± 15	±100			
DV348-05S600BM	48 ±10%	5	600	20	102	B
DV348-12S250BM		12	250			
DV348-15S200BM		15	200			
DV348-12D125BM		± 12	±125			
DV348-15D100BM		± 15	±100			

Option „S“: SMD-Mountable (Example: DV**S**324-05S600BM)

INPUT SPECIFICATIONS:

Input Voltage Range.....	See Table
Input Filter	LC Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy		+/-3%max.
Temperature Coefficient		0,02%/°C max.
Ripple and Noise, 20 MHz BW		50mV p-p max.
Short Circuit Protection		Indefinite & Current Limit
Line Regulation (From High Line to Low Line)		±0,3%
Load Regulation (From Full Load to 10% Load)	Single	±0,5%
	Dual	±1,0%

GENERAL SPECIFICATIONS:

Efficiency.....	61%
Isolation Capacitance	150pF Typ.
Isolation Resistance	10 ⁹ ohms
Switching Frequency	80KHz, min.
Operating Temperature Range.....	-25°C to +71°C
Derating, above 71 °C	Linearly to Zero Power at 100°C
Case Temperature	100 °C max.
Cooling.....	Free-Air Convection
Storage Temperature Range	-40°C to +100°C
Dimensions	1,25 x 0,80 x 0,40 inches (31,8 x 20,3 x 10,2 mm)
Dimensions SMD.....	1,25 x 0,80 (1,00) x 0,45 inches (31,8 x 20,3 (25,4) x 11,40 mm)
Weight.....	17,2 g

ISOLATION VOLTAGE:

500VDC min..... Standard Models

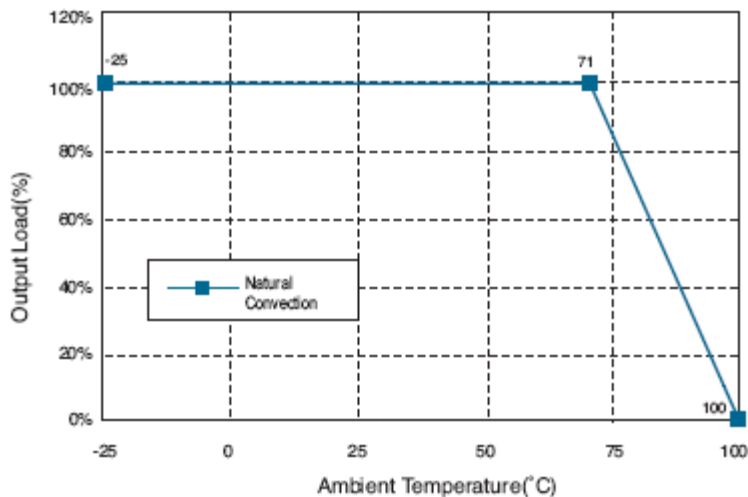
CASE MATERIAL:

Standard Models Black Coated Copper with Non-Conductive Base

Note:

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

Derating Curve



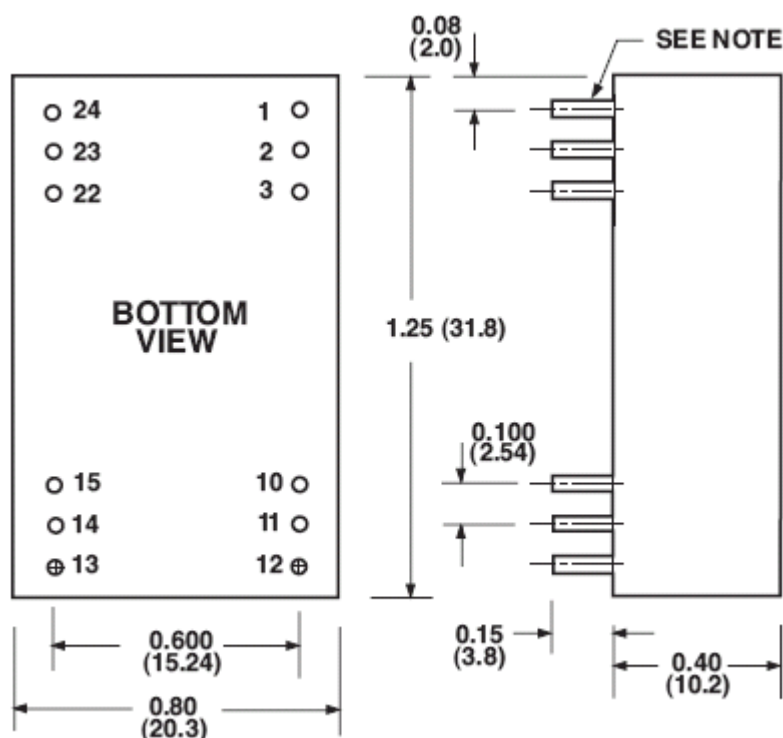
CASE B

Series DV31BE

Note: Pin Size is 0.02" Inch (0,5mm) DIA ± 0.05

All Dimensions in Inches (mm)

Tolerance Inches: .xx= ± 0.02 , .xxx= ± 0.010 ; mm: .x= ± 0.5 , .xx= ± 0.25

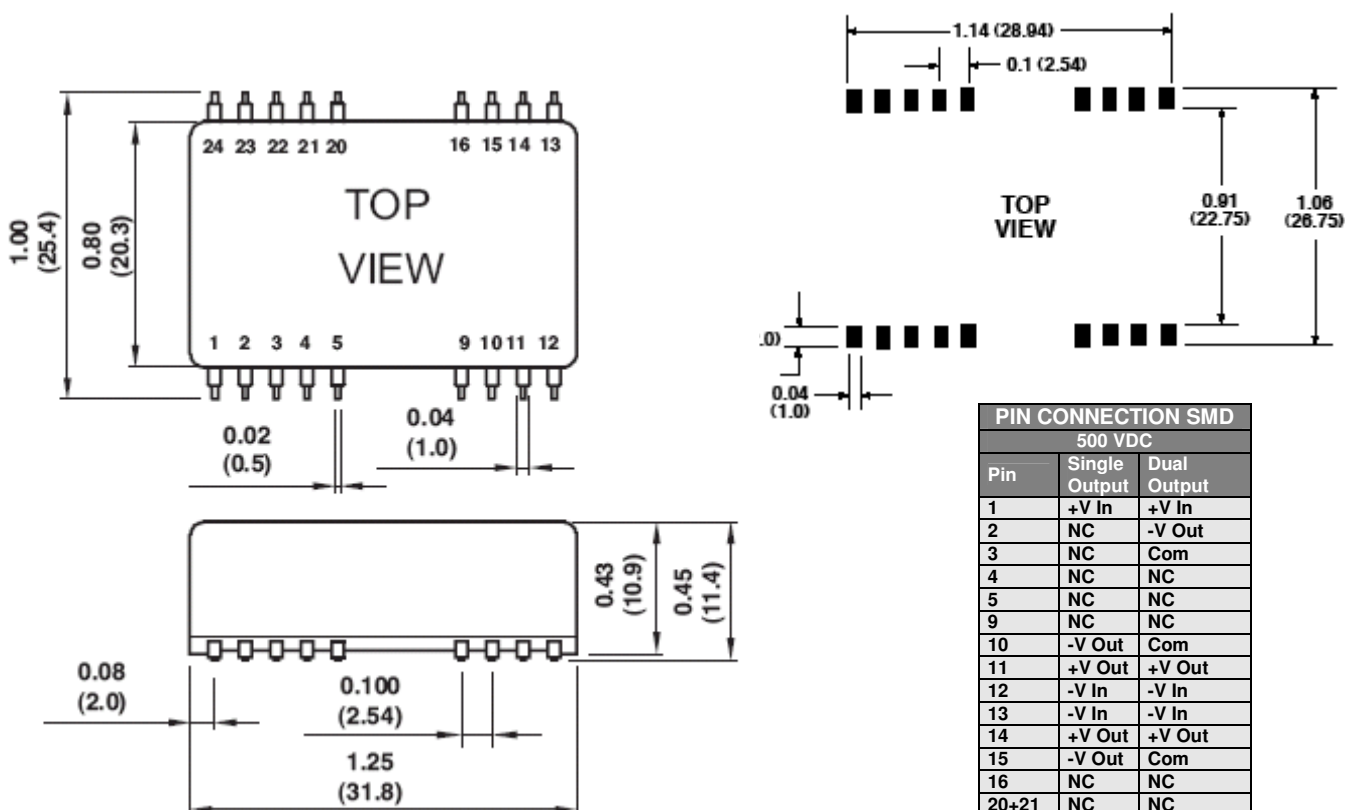


PIN CONNECTION		
500 VDC		
Pin	Single Output	Dual Output
1,24	+V Input	+V Input
2,23	NC	-V Output
3,22	NC	Common
10	-V Output	Common
11	+V Output	+V Output
12	-V Input	-V Input
13	-V Input	-V Input
14	+V Output	+V Output
15	-V Output	Common

*NP-NO PIN

*NC-NO CONNECTION WITH PIN

SMD PINNING



PIN CONNECTION SMD		
500 VDC		
Pin	Single Output	Dual Output
1	+V In	+V In
2	NC	-V Out
3	NC	Com
4	NC	NC
5	NC	NC
9	NC	NC
10	-V Out	Com
11	+V Out	+V Out
12	-V In	-V In
13	-V In	-V In
14	+V Out	+V Out
15	-V Out	Com
16	NC	NC
20+21	NC	NC
22	NC	Com
23	NC	-V Out
24	+V In	+V In

*NP-NO PIN

*TP-TEST POINT

*NC-NO CONNECTION WITH PIN

*GO-GROUND

Technische Änderungen vorbehalten / Technical change reserved