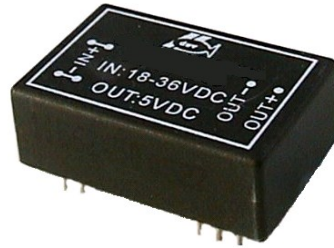




**3 Watt, 2:1 Wide Input
DC/DC Converters
Series DV32BE**



Features

- 3 Watt Isolated Output
- Regulated Outputs
- 2:1 Input Range
- Continuous Short Circuit Protection
- Operating Temperature Range -40°C to +85°C
- UL60950-1 Approval
- Efficiency up to 87%
- Pi Input Filter
- No Tantalum Capacitor Inside
- Meet EMI EN55022 Class A
- Option SMD Mountable

MODEL NUMBER	INPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT [mA]	INPUT CURRENT NO LOAD [mA]	INPUT CURRENT FULL LOAD [mA]	EFF. [%]	CAP. LOAD [µF]	CASE
DV4,5-9-05S600BE	4,5 – 9	5	600	15	779	77	2200	B
DV4,5-9-12S250BE		12	250	15	750	80	2200	
DV4,5-9-15S200BE		15	200	15	750	80	2200	
DV4,5-9-05D300BE		± 5	±300	25	779	77	1000	
DV4,5-9-12D125BE		± 12	±125	25	750	80	1000	
DV4,5-9-15D100BE		± 15	±100	25	750	80	1000	
DV4,5-9-3,3S600BE		3,3	600	15	550	72	2200	
DV9-18-05S600BE	9 – 18	5	600	7,5	309	81	2200	B
DV9-18-12S250BE		12	250	10	298	84	2200	
DV9-18-15S200BE		15	200	10	294	85	2200	
DV9-18-05D300BE		± 5	±300	15	305	82	1000	
DV9-18-12D125BE		± 12	±125	12	298	84	1000	
DV9-18-15D100BE		± 15	±100	15	294	85	1000	
DV9-18-3,3S600BE		3,3	600	7,5	212	78	2200	
DV18-36-05S600BE	18 – 36	5	600	7,5	152	82	2200	B
DV18-36-12S250BE		12	250	7,5	145	86	2200	
DV18-36-15S200BE		15	200	7,5	145	86	2200	
DV18-36-05D300BE		± 5	±300	7,5	152	82	1000	
DV18-36-12D125BE		± 12	±125	10	147	85	1000	
DV18-36-15D100BE		± 15	±100	10	145	86	1000	
DV18-36-3,3S600BE		3,3	600	5	106	78	2200	
DV36-72-05S600BE	36 – 72	5	600	3	74	84	2200	B
DV36-72-12S250BE		12	250	3	73	86	2200	
DV36-72-15S200BE		15	200	5	73	86	2200	
DV36-72-05D300BE		± 5	±300	5	74	85	1000	
DV36-72-12D125BE		± 12	±125	5	72	87	1000	
DV36-72-15D100BE		± 15	±100	5	72	87	1000	
DV36-72-3,3S600BE		3,3	600	3	52	79	2200	

Note: 1. Nominal Input Voltage: 5, 12, 24 or 48Vdc
For SMD Versions please see datasheet of series DVS32BE

Technische Änderungen vorbehalten / Technical change reserved

INPUT SPECIFICATIONS:

Input Voltage Range	5V	4,5 to 9V
	12V	9 to 18V
	24V	18 to 36V
	48V	36 to 72V
Input Filter		Pi Type
Input Surge Voltage (100ms max.)	5V	10VDC max.
	12V	25VDC max.
	24V	50VDC max.
	48V	100VDC max.

OUTPUT SPECIFICATIONS:

Voltage Accuracy		+/-2,0%max.
Voltage Balance (Dual)		+/-1,0%max.
Temperature Coefficient		0,05%/°C max.
Ripple and Noise, 20 MHz BW (Note3)	3,3V/5V	100mV p-p max.
	12V/15V	1% p-p max.
Short Circuit Protection		continuous
Line Regulation	(From High Line to Low Line)	±0,5%
Load Regulation	Single (From Full Load to 10% Load)	±0,5%
	Dual (From Full Load to 25% Load)	±1,0%
Start up time		10 ms max.

GENERAL SPECIFICATIONS:

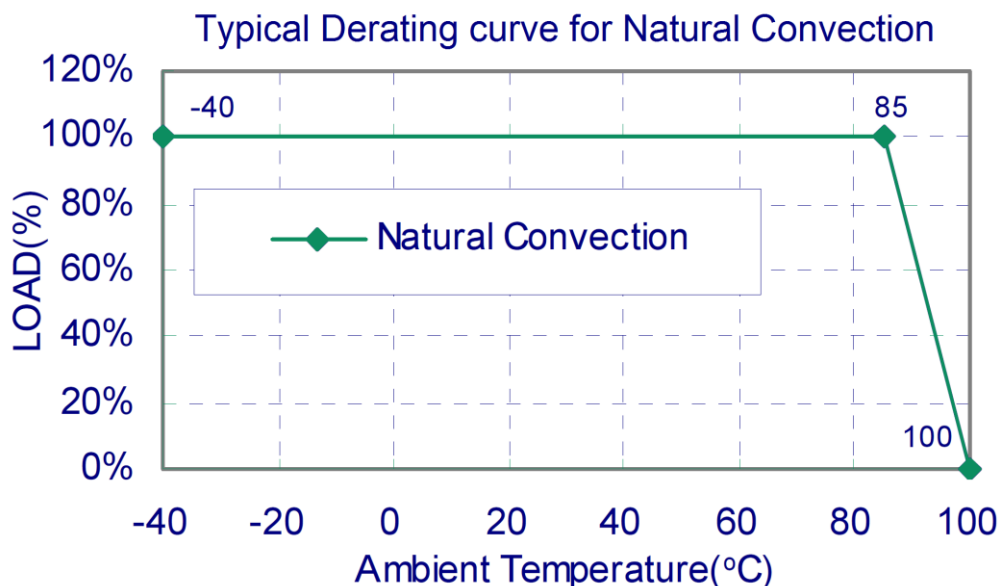
Efficiency		See Table
500 VDC min.		Standard Models
3K VDC min. (Non-Conductive Black Plastic Only)		Suffix „H“ Models
1,5K VDC min.		Suffix "HM" Models
Isolation Resistance		10 ⁹ ohm min.
Isolation Capacitance		250pF Typ.
Switching Frequency		100KHz, min.
Operating Temperature Range		-40°C to +85°C
Derating above 85°C		Linearly to Zero Power at 100°C
Case Temperature (Note 2)	(Plastic Case)	95°C max.
	(Copper Case)	100°C max.
Cooling		Natural Convection
Storage Temperature Range		-40°C to +100°C
Humidity		95% RH max. Non condensing
EMI / RFI (Conductive)		Meet EN55022 Class A
Dimensions		1,25 x 0,80 x 0,40 inches (31,8 x 20,3 x 10,2 mm)
Weight		12,5 g

CASE MATERIAL:

Standard Models		Non-Conductive Black Plastic
Suffix „M“ Models (Note 3)		Black Coated Copper with Non-Conductive Base

Note:

- Maximum case temperature under any operating condition should not exceed 95°C (plastic Case), 100°C (Copper Case)
 - The output noise is measured with 0,1uF MLCC across for SMD package
- All Specifications Typical at Nominal Line, Full Load and 25°C. Unless Otherwise Noted



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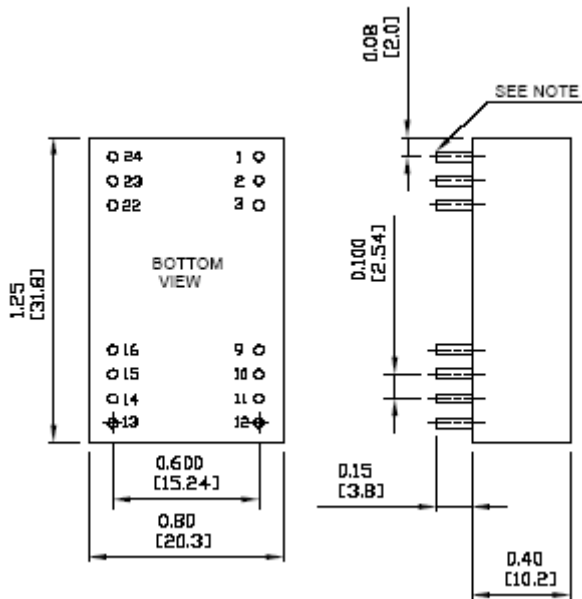
Note:

All Dimensions in Inches (mm),

Pin Size is 0.02 ±0.002 Inch (0.5±0.05mm)DIA

Tolerances: Inches X.XX= ±0.02 and X.XXX= ±0.010

Millimeters: X.X= ±0.5 and X.XX= ±0.25



PIN CONNECTION					
500 VDC			1,5K & 3K VDC		
Pin	Single Output	Dual Output	Pin	Single Output	Dual Output
1	+V Input	+V Input	1	NP	NP
2	NC	-V Output	2	-V Input	-V Input
3	NC	Common	3	-V Input	-V Input
9	NP	NP	9	NC	Common
10	-V Output	Common	10	NC	NC
11	+V Output	+V Output	11	NC	-V Output
12	-V Input	-V Input	12	NP	NP
13	-V Input	-V Input	13	NP	NP
14	+V Output	+V Output	14	+V Output	+V Output
15	-V Output	Common	15	NC	NC
16	NP	NP	16	-V Output	Common
22	NC	Common	22	+V Input	+V Input
23	NC	-V Output	23	+V Input	+V Input
24	+V Input	+V Input	24	NP	NP

*NP-NO PIN

*NC-NO CONNECTION WITH PIN