



**13 - 15 Watt, 4:1 Wide Input
DC/DC Converters
Series DV154A**



Features

- 13 – 15 Watt Isolated Output
- Regulated Outputs
- 4:1 Wide Input Range
- Industry Standard 1"x1" Packages
- Efficiency to 88%
- CE Mark Meets 2004/108/EC
- Safety Meets UL60950-1, EN60950-1, IEC60950-1
- I/O Isolation 1500 VDC
- Input Under-Voltage Protection
- Continuous Short Circuit Protection
- Over Current Protection
- Without Tantalum Capacitors Inside
- Remote ON/OFF

MODEL NUMBER	INPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT Min. [mA]	OUTPUT CURRENT Max. [mA]	INPUT CURRENT NO LOAD [mA]	INPUT CURRENT FULL LOAD [mA]	EFF. [%]	CAP. LOAD Max. [µF]	CASE
DV9-36-3,3S4000A	9 – 36	3,3	0	4000	60	632	87	4000	A
DV9-36-05S3000A		5	0	3000	70	718	87	3000	
DV9-36-12S1250A		12	0	1250	30	718	87	1250	
DV9-36-15S1000A		15	0	1000	30	710	88	1000	
DV9-36-05D1500A		±5	0	±1500	30	735	85	1500	
DV9-36-12D625A		±12	0	±625	30	718	87	625	
DV9-36-15D500A		±15	0	±500	30	710	88	470	
DV18-75-3,3S4000A	18 – 75	3,3	0	4000	40	313	88	4000	
DV18-75-05S3000A		5	0	3000	40	355	88	3000	
DV18-75-12S1250A		12	0	1250	20	359	87	1250	
DV18-75-15S1000A		15	0	1000	20	359	87	1000	
DV18-75-05D1500A		±5	0	±1500	20	368	85	1500	
DV18-75-12D625A		±12	0	±625	20	359	87	625	
DV18-75-15D500A		±15	0	±500	20	359	87	470	

Note: Nominal Input Voltage: 24 or 48Vdc

Specifications

Series DV154A

INPUT SPECIFICATIONS:

Input Voltage Range.....		See Table
Input Surge Voltage (100mS max.).....	24V	50Vdc max.
	48V	100Vdc max.
Under Voltage lockout	24Vin power up	8,8VDC typ.
	24Vin power down	8,0VDC typ.
	48Vin power up	17V typ.
	48Vin power down	16V typ.
Input Filter		LC Type
Positive Logic Remote ON/OFF Control:		
Logic Compatibility		CMOS or Open Collector TTL
Module ON		>+3,5 to 75VDC or Open Circuit
Module OFF		<1,2VDC

OUTPUT SPECIFICATIONS:

Voltage Accuracy		±1,5%max.
Voltage Balance (Dual).....		±2,0%max.
Transient Response 75%~100% Step Load Change	Error Band	±5% Vout nominal, Recovery Time <250µ sec.
Temperature Coefficient		0,03%/°C max.
Ripple and Noise, 20 MHz BW (Note1).....	Vo=3,3 & 5V	75mV p-p max.
	Vo=12 & 15V	100mV p-p max.
Short Circuit Protection.....		continuous
Line Regulation	(From Full Load to min. Load) Single Output.....	±0,2% max.
	(From Full Load to min. Load) Dual Output.....	±0,5% max.
Load Regulation	(From High Line to Low Line) Single/Dual Output.....	±0,2%/±1,0% max.
Cross regulation (Dual Output)	Load cross variation 10%/100%.....	±5,0% max.
Over Voltage Protection		Zener or TVS Clamp
External Trim Adj. Range (Single Output only).....		±10%
Current Limit.....		110% - 160% Nominal Load

GENERAL SPECIFICATIONS:

Efficiency.....		See Table
Isolation Voltage I/O		1500 VDC min.
Isolation Resistance		10 ⁹ Ω min.
Switching Frequency		400KHz, min.
Operating Ambient Temperature Range		-40°C to +85°C
Derating Single Output, above 68°C		Linearly to Zero Power at 100°C
Case Temperature (Note 2)		105°C
Cooling		Natural Convection
Storage Temperature Range		-55°C to +125°C
Humidity		95% RH max. Non condensing
MTBF (MIL-STD-217F,GB, 25°C, Full Load.....	S33/S05.....	950Khrs typ.
Dimensions	DIP CASE.....	1,00 x 1,00 x 0,40 inches (25,4 x 25,4 x 10,2 mm)
Weight.....		18,4 g

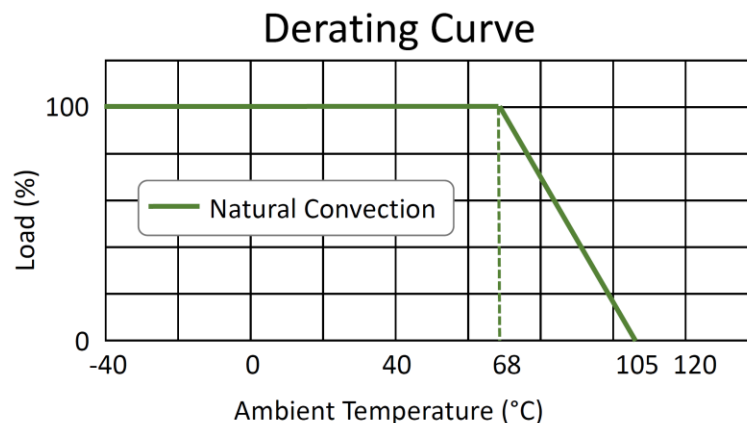
MATERIAL:

Standard Models Black Coated Copper with Non-Conductive Base

Note:

1. The Output Ripple and Noise is Measured with 10µF Tantalum and 1µF Ceramic Capacitor Across Output
2. Maximum case temperature under any operating condition should not be exceeded 105°C

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



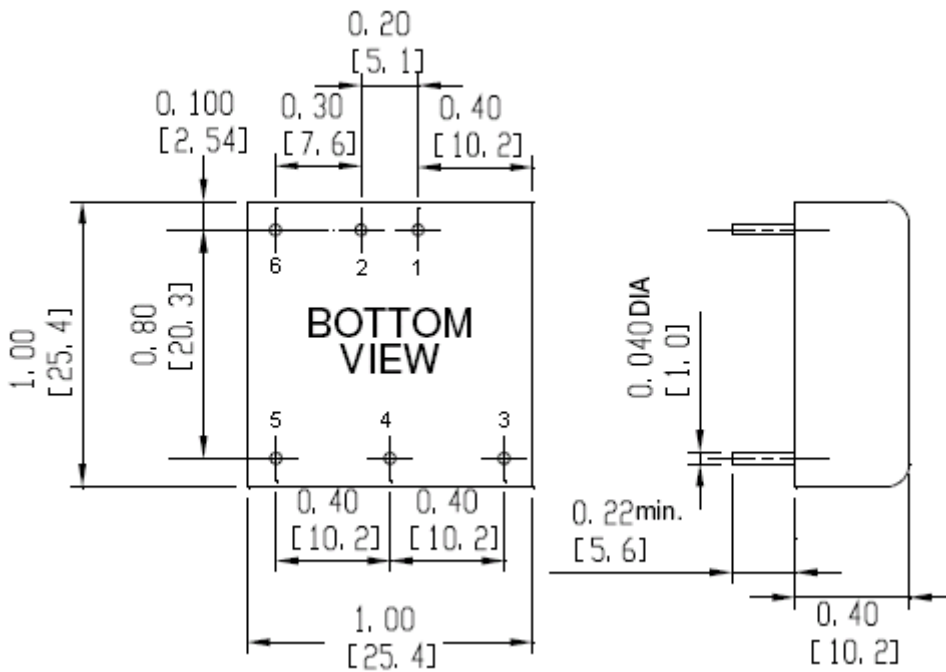
Technische Änderungen vorbehalten / Technical change reserved

CASE A

Series DV154A

All Dimensions in Inches (mm)

Tolerance x.xx=±0.02(x.x = ±0.5mm) ; x.xxx=±0.010(x.xx = ±0.25mm)



PIN CONNECTION DV154A	
Pin	DIP CASE
1	+V Input
2	-V Input
3	+V Output
4	Trim
5	-V Output
6	Remote ON/OFF

EXTERNAL OUTPUT TRIM

