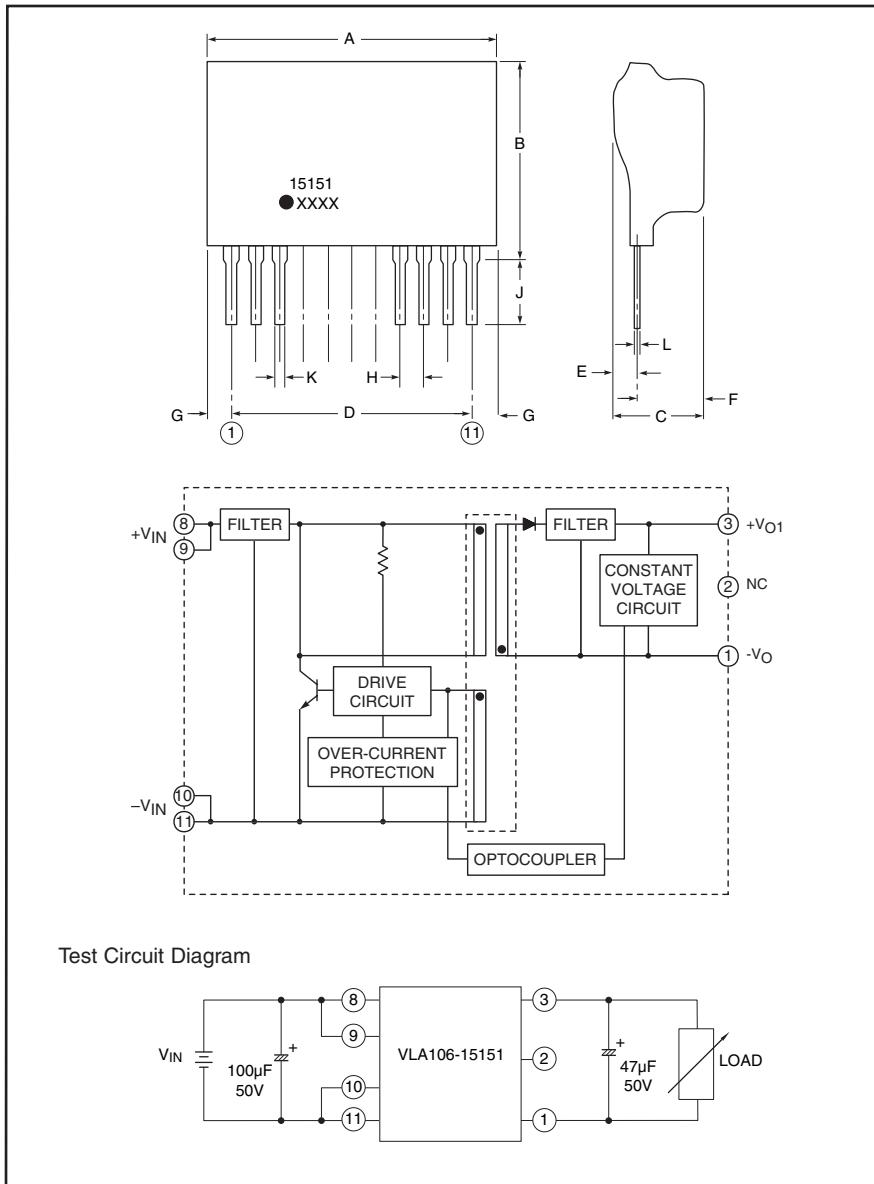


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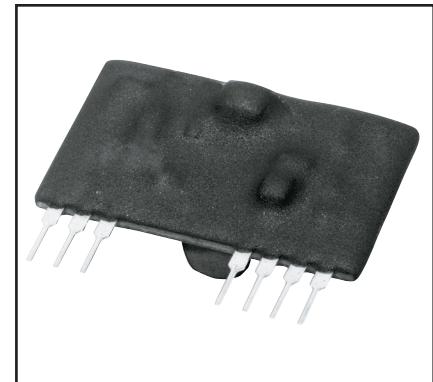
Isolated DC/DC Converter



Outline Drawing and Circuit Diagram

Dimensions	Inches	Millimeters
A	1.3	33.0
B	0.945	24.0
C	0.71	18.0
D	1.0	25.4
E	0.22	5.5
F	0.53	13.5
G	0.18	4.5
H	0.10	2.54
J	0.18±0.06	4.5±1.5
K	0.02+0.004/-0.002	0.5+0.1/-0.05
L	0.01+0.01/-0.002	0.25+0.2/-0.05

Note: All dimensions listed are maximums except D.



Description:

VLA106-15151 is a DC-DC converter. Its output power is 1.5W and the input is isolated from the output. The over-current protection circuit is built-in. This device is best for on-board power supplies such as industrial equipment and control equipment.

Features:

- Input Voltage Range: 12 to 18V DC
- Output: +15V, 100mA (Output Power: 1.5W)
- Thin Profile, Lightweight Design
- Electrical Isolation Voltage Between Input and Output: 2500 Vrms for 1 Minute
- Built in Over-current Protection Circuit

Application:

On-board power supplies such as industrial equipment and control equipment.

Absolute Maximum Ratings, $T_a = 25^\circ\text{C}$ unless otherwise specified

Characteristics	Symbol	VLA106-15151		Units
Input Voltage (Between Pins 8, 9, and 10, 11)	V_{IN}	18		Volts
Output Current (Between Pins 3 and 1)	I_O	100		mA
Operating Temperature (No Condensation)*	T_{opr}	-10 ~ +70		$^\circ\text{C}$
Storage Temperature (No Condensation)	T_{stg}	-20 to +85		$^\circ\text{C}$
Input-Output Isolation Voltage (AC, 1 Minute)	V_{ISO}	2500		V_{rms}

*Please refer to derating characteristics.

Electrical and Mechanical Characteristics, $T_a = 25^\circ\text{C}$, $V_{IN} = 15\text{V}$ unless otherwise specified

Characteristics	Symbol	Test Conditions	Min.	Typ.	Max.	Units
Input Voltage	V_{IN}	Recommended Range	12	15	18	Volts
Output Voltage	V_O	$I_O = 0 \sim 100\text{mA}$	14.25	15.0	15.75	Volts
Input Regulation	R_{eg-I}	$I_O = 100\text{mA}$, $V_{IN} = 12 \sim 18\text{V}$	—	—	50	mV
Load Regulation	R_{eg-L}	$I_O = 0 \sim 100\text{mA}$	—	—	50	mV
Ripple Voltage	V_{P-P}	$I_O = 100\text{mA}$	—	—	150	mV
Efficiency	η	$I_O = 100\text{mA}$	—	75	—	%

