нувгі іс VLA106-24051

ISOLATED TYPE DC-DC CONVERTER

DESCRIPTION

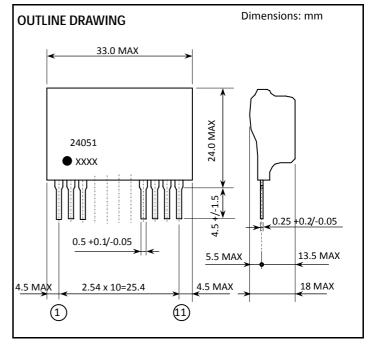
The VLA106-24051 is a DC-DC converter. Its output power is 1.5W and the input is isolated from the output. The over-current protection circuit is built-in and it is the best for on-board power supplies, such as industrial equipment and control equipment.

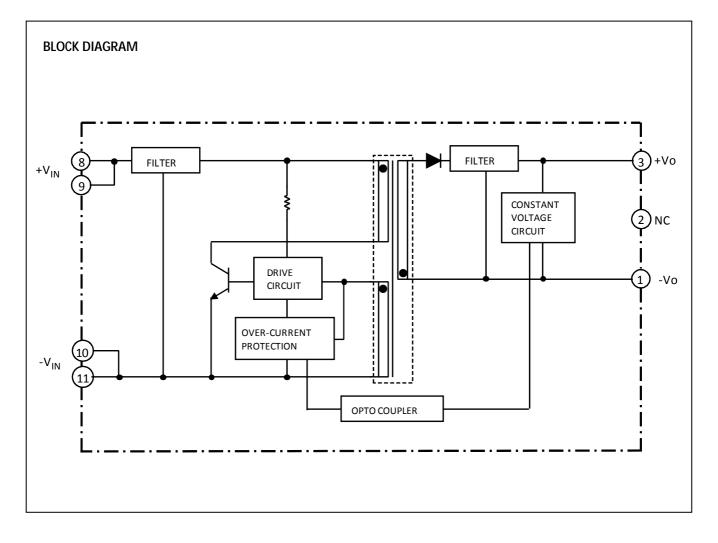
FEATURES

- •Input voltage range: 21.6 to 26.4V DC
- •Output: +5V, 300mA (output power: 1.5W)
- •Thin-profile and lightweight design
- •Isolation between input and output : 2500Vrms, 1min
- •Built-in over-current protection circuit

APPLICATIONS

On-board power supplies for control equipment.







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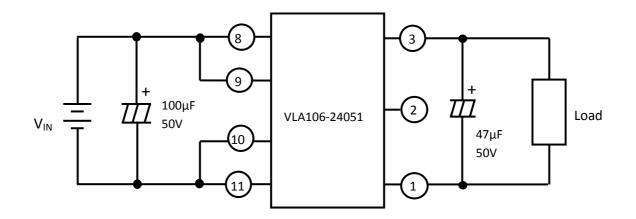
Symbol	Parameter	Conditions	Ratings	Unit
V _{IN}	Input voltage	Between pins 8,9 and 10,11	27	V
Ι _ο	Output current	Between pins 3 and 1	300	mA
Topr	Operating temperature	No condensation	-10 ~ +70	°C
Tstg	Storage temperature	No condensation	-20 ~ +85	°C
Viso	Input-output isolation voltage	AC , 1min	2500	Vrms

MAXIMUM RATINGS (unless otherwise noted, Ta=25°C)

ELECTRICAL CHARACTERISTICS (unless otherwise noted, V_{IN}=24V, Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
		lest conditions	MIN.	TYP.	MAX.	Unit
V _{IN}	Input voltage	Recommended range	21.6	24	26.4	V
Vo	Output voltage	I ₀ = 0 ~ 300mA	4.75	5.0	5.25	V
R _{eg-I}	Input regulation	I ₀ =300mA, V _{IN} =21.6 ~ 26.4V	_	_	75	mV
R _{eg-L}	Load regulation	I ₀ = 0 ~ 300mA	_	_	120	mV
V _{P-P}	Ripple voltage	I ₀ =300mA	_	_	120	mV
η	Efficiency	I _o =300mA	—	68	_	%

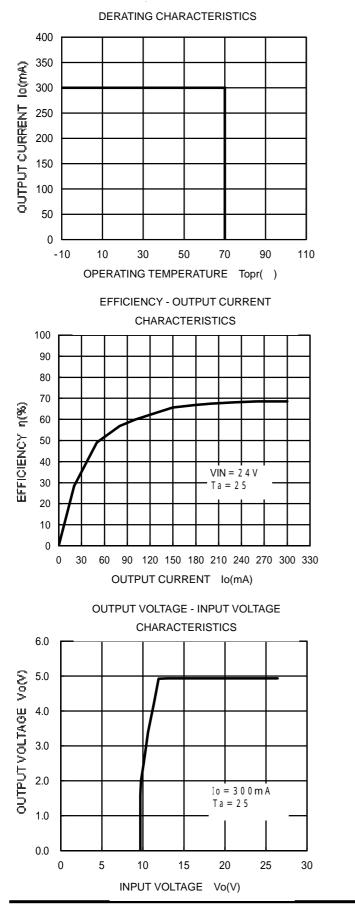
TEST CIRCUIT DIAGRAM

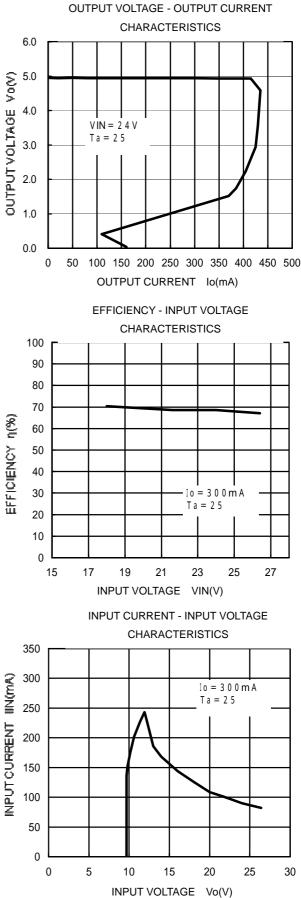


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ISOLATED TYPE DC-DC CONVERTER

TYPICAL CHARACTERISTICS





нувгі іс VLA106-24051

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FOR SAFETY USING

Great detail and careful attention are given to the production activity of Hics, such as the development, the quality of production, and in it's reliability. However the reliability of Hics depends not only on their own factors but also in their condition of usage. When handling Hics, please note the following cautions.

CAUTIONS				
Packing	The materials used in packing Hics can only withstand normal external conditions. When exposed to outside shocks, rain and certain environmental contaminators, the packing materials will deteriorates. Please take care in handling.			
Carrying	 Don't stack boxes too high. Avoid placing heavy materials on boxes. Boxes must be positioned correctly during transportation to avoid breakage. Don't throw or drop boxes. Keep boxes dry. Avoid rain or snow. Minimal vibration and shock during transportation is desirable. 			
Storage	 When storing Hics, please observe the following notices or possible deterioration of their electrical characteristics, risk of solderability, and external damage may occur. 1) Devices must be stored where fluctuation of temperature and humidity is minimal, and must not be exposed to direct sunlight. Store at the normal temperature of 5 to 30 degrees Celsius with humidity at 40 to 60%. 2) Avoid locations where corrosive gasses are generated or where much dust accumulates. 3) Storage cases must be static proof. 4) Avoid putting weight on boxes. 			
Extended storage	When extended storage is necessary, Hics must be kept non-processed. When using Hics which have been stored for more than one year or under severe conditions, be sure to check that the exterior is free from flaw and other damages.			
Maximum ratings	To prevent any electrical damages, use Hics within the maximum ratings. The temperature, current, voltage, etc. must not exceed these conditions.			
Polarity	To protect Hics from destruction and deterioration due to wrong insertion, make sure of polarity in inserting leads into the board holes, conforming to the external view for the terminal arrangement.			

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ISOLATED TYPE DC-DC CONVERTER



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