DESCRIPTION

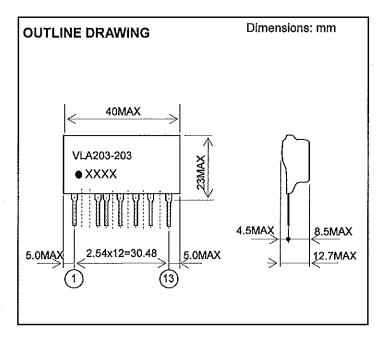
The VLA203-203 is a DC-DC converter which can input wide range voltage. The over-current protection circuit is built-in and it is the best for on-board power supplies, such as industrial equipment and battery power equipment.

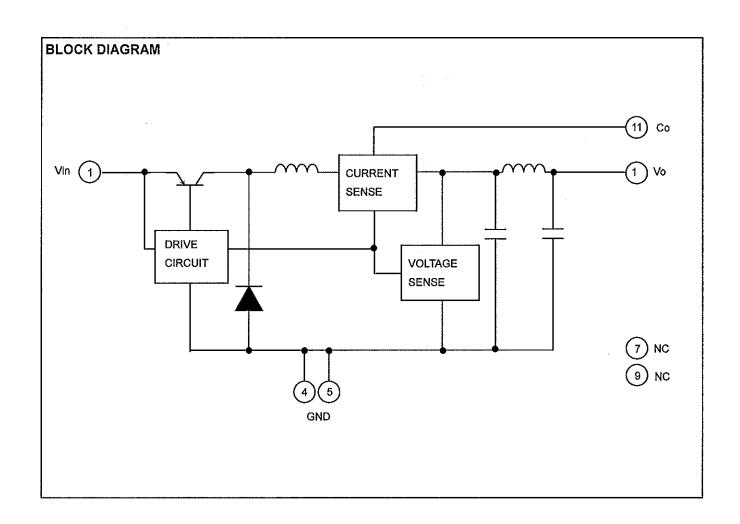
FEATURES

- •Wide input voltage range: 26 to 120V DC
- •Output: +20.5V, 150mA (output power: 1.8W)
- •Thin-profile and lightweight design
- •Built-in over-current protection circuit

APPLICATIONS

On-board power supplies, such as industrial equipment and battery power equipment.





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

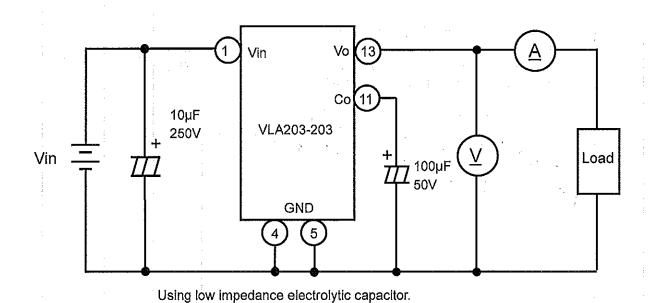
Symbol	Parameter	Conditions	Ratings	Unit
Vin	Input voltage		120	. V
lo	Output current	<u>-</u>	150	mA
Topr	Operating temperature	No condensation *1	-25 ~ +80	°C
Tstg	Storage temperature	No condensation	-30 ~ +85	°C

^{*1:} There is the necessity for derating with circumference temperature.

ELECTRICAL CHARACTERISTICS (unless otherwise noted, V_{in}=80V, Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			MIN.	TYP.	MAX.	Unit
V _{In}	Input voltage	Recommended range	26	80	120	V
. Vo	Output voltage	I _o = 0 ~ 150mA	19.5	20.5	21.5	V
R _{eg-I}	Input regulation	Vin=26 ~ 120V, Io=150mA		50	150	mV
Reg-L	Load regulation	I _o = 0 ~ 150mA	-	100	200	mV
V _{P-P}	Ripple voltage	lo=150mA		60	120	mV
η	Efficiency	I ₀ =150mA	_	73	—	%

TEST CIRCUIT DIAGRAM



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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. When storing Hics, please observe the following notices or possible deterioration of their electrical characteristics, risk of solderability, and external damage may occur. 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%. Avoid locations where corrosive gasses are generated or where much dust accumulates. Storage cases must be static proof. Avoid putting weight on boxes. 				
Storage					
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 temperaqture, 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.				



Marketing division, Marketing plannning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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