767UH-24-SD

500 Watt, isolated, single output buck converter with internal decoupling diode All parameters defined on Ta=25°C, IoNom = 21,0 ADC and UiNom = 80VDC

ABSOLUTE MAXIMUM RATINGS

parameter	unit	typ
Input peak voltage	VDC	125.00
Feedback protection against overvoltage on the output	VDC	35

THERMAL CHARACTERISTICS

parameter	min to max	typ
Ambient temperature range	-40°C / +85°C	
Max. case temperature for thermal shut down [°C]		+90°C
Storage temperature (device not in operation)	-10°C / +65°C	
Relative maximum humidity under storage		75% RH
Storage under worst conditions [in days]		25

COMMUNICATION INTERFACE

unit	fulfilled	conditions	min to max
	\checkmark		
VDC		loNom	-0,2 to 2,8
•			\checkmark

SPECIALS

parameter	unit	fulfilled	conditions	typ
Switching frequency	kHz			125
Efficiency at light loads	%		0.25loNom	93.00
Efficiency at medium loads	%		0.5loNom	93.00
Efficiency at full loads	%		loNom	93.00
For active loads or parallel connection		\checkmark		
Drives high capacitive loads		\checkmark		
CC/CV battery load characteristic		\checkmark		
Coupling capacitance input to output	nF			transformer winding only
Insulation strength primary to secondary	VDC			2100
Insulation strength primary to case	VDC			2100

COMPLIANCE

fulfilled	notes
\checkmark	
	fulfilled √ √ √ √ √ √ √ √ √ √

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TECHNICAL DATASHEET

767UH-24-SD

500 Watt, isolated, single output buck converter with internal decoupling diode

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500 Watt, isolated, single output buck converter with internal decoupling diode

INPUT					
parameter	unit	conditions	min	typ	max
Input voltage range	VDC	loNom	30	80	110
No load input current	mA	UiNom		50	
Max. input current	Α	UiNom		20	
Input start up voltage	VDC	UiNom		30.0	
Undervoltage lockout	VDC	UiNom		28.0	
Input quiescent current in shutdown mode	mA	UiNom		2.50	
Generated AC-ripple on the supply (BW=20MHz)	mVp-p	UiNom/IoNom		50	
Generated HF-noise on the supply (BW=20MHz)	mVp-p	UiNom/IoNom		50	

OUTPUT

parameter	unit	conditions	min typ max
Output voltage	VDC	loNom	24.0
No Load output voltage increase	%	UiNom	4
Minimum required load to obtain the specified output voltage	%	UiNom	2
Generated AC-ripple on the output (BW=20MHz)	mVp-p	UiNom/IoNom	30
Generated HF-noise on the output (BW=20MHz)	mVp-p	UiNom/IoNom	30
Output voltage accuracy	%	loNom	+/-2,00%
Output voltage overshoot at initial switch-on	%	loNom	overdamped
Rated output power	W		500

CONTROL

parameter	unit	conditions	min typ max
Maximum admissible capacitive load	uF	loNom	infinite
Initial switch on time	ms	loNom	500
Softstart ramp up time	ms	loNom	30
Restart time after undervoltage lockout	ms	loNom	500

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MECHANICAL

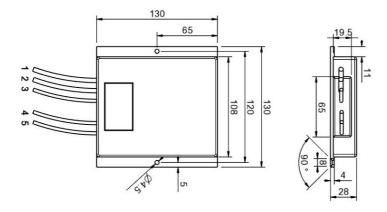
parameter	unit	
Overall dimensions	mm	130x130x28
Weight	g	900

Pin No.	Function	Electrical Determination	Colour	Cross-Section	Cable length
1	Vi+	Input voltage positive	red	6 mm²	300 mm
2	Vi-	Input voltage negative	black	6 mm²	300 mm
3	SD	Shut down	blue	1,5 mm²	300 mm
4	Vo-	Output voltage negative	black	6 mm²	300 mm
5	Vo+	Output voltage positive	red	6 mm ²	300 mm

Mechanical dimensions and Pin configuration

All dimensions in mm Connector type: cable

Case: FMC 130x130x28



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