

page 1 of 2date 08/2007

PART NUMBER: VBS20 series DESCRIPTION: DC/DC converter

features

- -6A non-isolated output
- -efficiency to 88%
- -constant frequency
- over current protection
- -regulated outputs
- ·under input voltage protection
- -output voltage adjustment
- -remote on/off control



model	input	output	output	input	current		
number	voltage	voltage	current	no load	full load	effic.	case
VBS20-S5-1R2	4.5-5.5VDC	1.2VDC	6A	40mA	1895mA	76%	В
VBS20-S5-2R1	4.5-5.5VDC	2.1VDC	6A	40mA	3000mA	84%	В
VBS20-S5-2R5	4.5-5.5VDC	2.5VDC	6A	40mA	3530mA	85%	В
VBS20-S5-3R3	4.5-5.5VDC	3.3VDC	6A	40mA	4500mA	88%	В

INPUT

input voltage range ¹	5V	4.5V-5.5V
input filter type		capacitive
remote on/off control ²		positive logic

OUTPUT

load regulation ⁴		±0.5% max 120-150% nominal output
line regulation ³		±0.5% max
over circuit protection		auto recovery
temperature coefficient		±0.05%/°C
ripple & noise	20MHz BW, w/ $0.1\mu F$ on output	75mV pk-pk., max
external trim adj. range		±10%
voltage accuracy		±1% max.

GENERAL SPECIFICATIONS

efficiency	see table	
switching frequency	200KHz, typical	
operating temperature range	-25°C to +71°C	
case temperature	95°C max.	
storage temperature	-40°C to +105°C	
dimensions	2.0x1.0x0.4 inches	
	(50.8x25.4x10.2mm)	
case material	non-conductive black plastic	

NOTES:

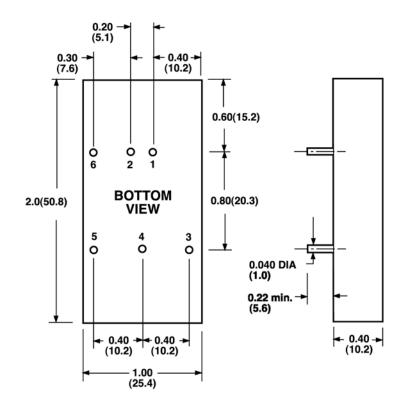
- 1. Input requires a 470uF cap to meet specifications.
- 2. Logic compatibility with open collector TTL or CMOS.
- 3. Measured from high line to low line
- 4. Measured from full load to 10% load



page 2 of 2date 08/2007

PART NUMBER: VBS20 series DESCRIPTION: DC/DC converter

DIMENSIONS (mm)



PIN CONNECTION Pin Function 1. +Input 2. -Input 3. +Output 4. Trim 5. -Output 6. Remote ON/OFF

DERATING CURVE

