VSNS10 Series Point of Load Converter

Features

- ·Delivers 10A of output current
- ·High efficiency
- ·Low output ripple and noise
- ·Small size and low profile
- ·Cost efficient open frame design
- ·single-in-line (SIP) and SMT package
- ·Remote on/off (active low)
- ·Remote sense
- ·Trimmable output voltage via external resistor
- ·Output over current protection
- ·Over temperature protection
- ·Wide operating temperature range -40°C~85°C
- ·Non-isolated



Model Number	Input Voltage	Output Voltage	Output Current	Max. Power	Ripple & Noise max	MTBF	Efficiency typ.
VSNS10-5-1R0	3.0-5.5V	1.0V	10A	10.0W	30mVp-p	7.6x10^5 hrs	82%
VSNS10-5-1R5	3.0-5.5V	1.5V	10A	15.0W	30mVp-p	7.6x10^5 hrs	87%
VSNS10-5-1R8	3.0-5.5V	1.8V	10A	18.0W	30mVp-p	7.6x10^5 hrs	88%
VSNS10-5-2R0	3.0-5.5V	2.0V	10A	20.0W	30mVp-p	7.6x10^5 hrs	90%
VSNS10-5-2R5	3.0-5.5V	2.5V	10A	25.0W	30mVp-p	7.6x10^5 hrs	92%
VSNS10-5-3R3	4.5-5.5V	3.3V	10A	33.0W	30mVp-p	7.6x10^5 hrs	94%
VSNS10-12-1R0	10-14V	1.0V	10A	10.0W	50mVp-p	8.0x10^5 hrs	81%
VSNS10-12-1R5	10-14V	1.5V	10A	15.0W	50mVp-p	8.0x10^5 hrs	84%
VSNS10-12-1R8	10-14V	1.8V	10A	18.0W	50mVp-p	8.0x10^5 hrs	85%
VSNS10-12-2R5	10-14V	2.5V	10A	25.0W	50mVp-p	8.0x10^5 hrs	87%
VSNS10-12-3R3	10-14V	3.3V	10A	33.0W	50mVp-p	8.0x10^5 hrs	89%
VSNS10-12-5R0	10-14V	5.0V	10A	50.0W	50mVp-p	8.0x10^5 hrs	92%

Notes:

1. Typical at Ta+ +25°C under nominal line voltage and full load conditions, unless other wise noted. All models are tested and specified with external input and output capacitors. (Cin=100uFx2 Cout=10uF), These capacitors are necessary to accommodate out test equipment.
2. Ripple and Noise are tested/specified over a 20MHz bandwidth and may be reduced with external filtering.
3. This device has no minimum load requirement and will regulate under no-load conditions. The regulation part of the specifica-

Electrical Specifications

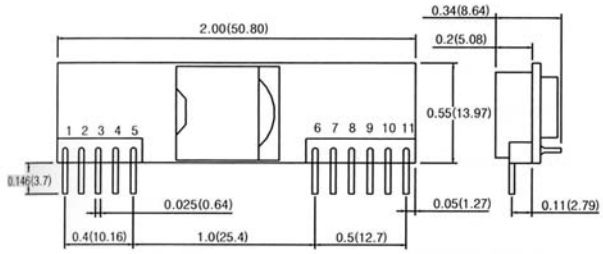
Voltage tolerance	±2.0%
Line regulation	±0.3%
Load regulation	±0.4%
Switching frequency	300KHz
Dimensions	50.8x13.97x8.64mm (SIP package)

Drawings

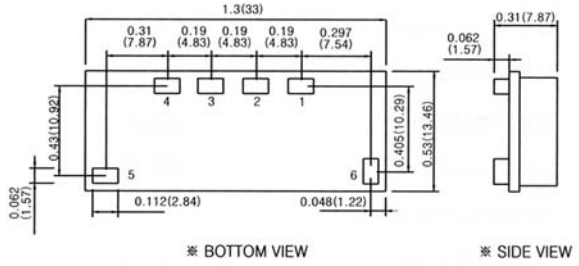
Pin assignment

Single Output (SIP)	Single Output (SMT)
1. +Vout	1. Sense
2. +Vout	2. Trim
3. Sense	3. +Vout
4. +Vout	4. COM
5. COM	5.+Vin
6. COM	6. ON/OFF
7. +Vin	
8. +Vin	
9. No Pin	
10. TRIM	
11. ON/OFF	

Dimensions



〈SIP TYPE〉



〈SMT TYPE〉

NOTES
1. All dimensions are in inches (mm)
2. Weight : 7.8g or less (SIP)
   5.6g or less (SMT)

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