

ARLITECH

HDB02 Series



Features

- Low Cost
- Ultra Miniature SIP
- Fully Encapsulated Plastic Case
- Available RoHS Compliant
- Industry -Standard Package and Pinout
- 11.50 x 7.55 x 10.16 mm package
- 2 Years Warranty

SAFETY&EMC

SAFETY

- UL *UL60950-1(Pending)*
- TUV *EN60950-1(Pending)*

EMC

- Conduction *EN55022 (Class A)*
- Radiation *EN55022 (Class A)*

Specifications

Input

- Input Voltage Range
 - 3.0~ 3.6 Vdc(3.3V Nom.)
 - 4.5~ 5.5 Vdc(5V Nom.)
 - 8.1~ 9.9 Vdc(9V Nom.)
 - 10.8~13.2Vdc(12V Nom.)
 - 13.5~16.5Vdc(15V Nom.)
 - 21.6~26.4Vdc(24V Nom.)
- Input Filter *C Type*

Output

- Output Power *2W*
- Min Load Current *10%*
- Voltage Accuracy *±5%*
- Line Regulation *±1.2%(1% Vin)*
- Load Regulation *±15%(10%~100% load)*
- Temperature Coefficient *±0.02%*
- Ripple/Noise *200mV*

Protection

- Short Circuit Protection *(Short Time / 1sec)*

General

- Isolation Voltage (In/Out) *1000 Vdc*
- Isolation Capacitance *46pF*
- Isolation Resistance *10G ohm*
- Case Material *Plastic(UL94-V0)*
- Weight *1.4g*

Environmental

- Operating Temperature *-40°C~75°C(Derating)*
- Storage Temperature *-55°C~125°C*
- Cooling *Free air convection*
- Humidity *20% ~ 95%RH*
- MTBF *>2.0Million hours*

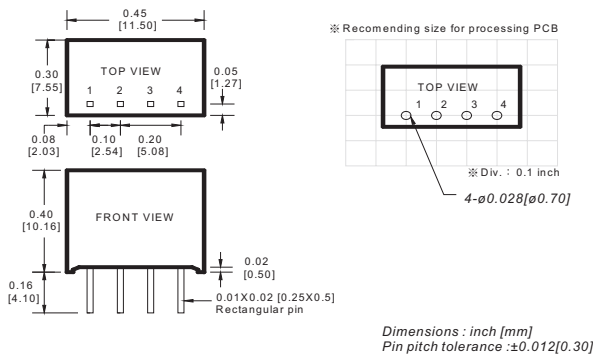
Ordering Information

SBS Power Electronic GmbH & Co.KG
Weidenstrasse 19, 21635 Jork
Tel:04162-911123 Info@SBS-Power.de

Module Number	Output Voltage	Output Current	Efficiency	Capacitor Load
HDB02-33S3P3	3.3V	606mA	69%	22uF
HDB02-33S05	5V	400mA	69%	22uF
HDB02-33S09	9V	222mA	71%	22uF
HDB02-33S12	12V	166mA	74%	10uF
HDB02-33S15	15V	133mA	77%	10uF
HDB02-05S3P3	3.3V	606mA	70%	22uF
HDB02-05S05	5V	400mA	70%	22uF
HDB02-05S09	9V	222mA	72%	22uF
HDB02-05S12	12V	166mA	75%	10uF
HDB02-05S15	15V	133mA	78%	10uF
HDB02-05S24	24V	83mA	80%	10uF
HDB02-09S3P3	3.3V	606mA	70%	22uF
HDB02-09S05	5V	400mA	70%	22uF
HDB02-09S09	9V	222mA	72%	22uF
HDB02-09S12	12V	166mA	75%	10uF
HDB02-09S15	15V	133mA	78%	10uF
HDB02-09S24	24V	83mA	80%	10uF
HDB02-12S3P3	3.3V	606mA	70%	22uF
HDB02-12S05	5V	400mA	70%	22uF
HDB02-12S09	9V	222mA	72%	22uF
HDB02-12S12	12V	166mA	75%	10uF
HDB02-12S15	15V	133mA	78%	10uF
HDB02-12S24	24V	83mA	80%	10uF
HDB02-15S3P3	3.3V	606mA	70%	22uF
HDB02-15S05	5V	400mA	70%	22uF
HDB02-15S09	9V	222mA	72%	22uF
HDB02-15S12	12V	166mA	75%	10uF
HDB02-15S15	15V	133mA	78%	10uF
HDB02-15S24	24V	83mA	80%	10uF
HDB02-24S3P3	3.3V	606mA	70%	22uF
HDB02-24S05	5V	400mA	70%	22uF
HDB02-24S09	9V	222mA	72%	22uF
HDB02-24S12	12V	166mA	75%	10uF
HDB02-24S15	15V	133mA	78%	10uF
HDB02-24S24	24V	83mA	80%	10uF

Pin Define

Pin No.	1	2	3	4
Single	-VI	+VI	-VO	+VO



Notes

- All specification are typical at nominal line, full load, and 25 °C ambient air temperature.
- Ripple/Noise measured with a 1uF M/C (20MHz bandwidth).
- Certain applications may require to install an external 1.5 A slow blow fuse in front of the input.