

ARLITECH

## HDJ03W Series



## Features

- 4:1 Wide Input Voltage Range
- Fully Encapsulated Plastic Case
- Available RoHS Compliant
- UL, CE Safety Approving
- Industry -Standard Package and Pinout
- 32.00 x 20.32x 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 *9~36 Vdc(24V Nom.)  
18~75 Vdc(48V Nom.)*
- Input Surge Voltage *50/100Vdc(100ms Pulse)*
- Input Filter *π Type*
- Reflected Ripple Current *40mA p-p*
- Start-up Time *400ms*

### Output

- Output Power *3W*
- Min Load Current *20%*
- Voltage Accuracy *±2%*
- Line Regulation *±1%*
- Load Regulation *±1%(20%~100% load)*
- Cross Regulation *±5%(25%~100% load)*
- Transient Recovery Time *350us*
- Transient Response Deviation *±4% of Vout(25% load step)*
- Temperature Coefficient *±0.02%*
- Ripple/Noise *75mV (12V, 15V)  
50mV (3.3V, 5V)*

### Protection

- Over Load Protection *(Fold Back)*
- Short Circuit Protection *(Auto Recovery)*

### General

- Isolation Voltage (In/Out) *2000 Vdc*
- Isolation Capacitance *60pF*
- Isolation Resistance *1G ohm*
- Case Material *Plastic(UL94-V0)*
- Weight *13g*

## Environmental

- Operating Temperature *-40°C~120°C (Derating)*
- Storage Temperature *-55°C~125°C*
- Cooling *Free air convection*
- Humidity *20% ~ 95%RH*
- MTBF *>1.0 Million hours*

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

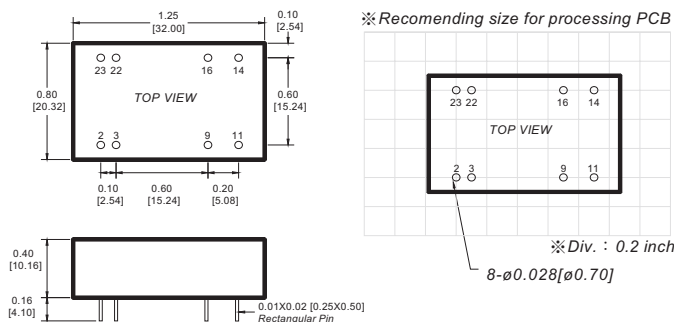
## Ordering Information

Module Number	Output Voltage	Output Current	Efficiency	Capacitor Load
HDJ03W-24S3P3	3.3V	900mA	78%	680uF
HDJ03W-24S05	5V	600mA	80%	470uF
HDJ03W-24S12	12V	250mA	84%	330uF
HDJ03W-24S15	15V	200mA	85%	220uF
HDJ03W-48S3P3	3.3V	900mA	79%	680uF
HDJ03W-48S05	5V	600mA	81%	470uF
HDJ03W-48S12	12V	250mA	84%	330uF
HDJ03W-48S15	15V	200mA	85%	220uF
HDJ03W-24D05	± 5V	± 300mA	80%	± 220uF
HDJ03W-24D12	± 12V	± 125mA	84%	± 150uF
HDJ03W-24D15	± 15V	± 100mA	85%	± 100uF
HDJ03W-48D05	± 5V	± 300mA	81%	± 220uF
HDJ03W-48D12	± 12V	± 125mA	84%	± 150uF
HDJ03W-48D15	± 15V	± 100mA	85%	± 100uF

● Add "H" after Order Code for isolation 4000Vdc

## Pin Define

Pin No.	2,3	9	11	14	16	22,23
<b>Single</b>	-VI	NC	NC	+VO	-VO	+VI
<b>Dual</b>	-VI	COM	-VO	+VO	COM	+VI



Dimensions : inch [mm]  
 Pin pitch tolerance : ±0.012[0.30]

## Notes

- All specification are typical at nominal line, full load ,and 25 °C ambient air temperature.
- Ripple/Noise measured with a 1uF M/C and 100uF E/C(20MHz bandwidth).
- Certain applications may require to install an external 1.5A slow blow type fuse in front of the input.
- To measure input reflected ripple current must with a simulated source inductance of 12uH, and capacitor of 220 uF offsets possible battery impedance, capacitor of 33uF mounted close to the module help ensure the stability.