

ARLITECH

HDJ10A Series



Features

- 2:1 Wide Input Voltage Range
- Fully Encapsulated Metal 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 18~36 Vdc(24V Nom.)
36~75 Vdc(48V Nom.)
- Input Surge Voltage 50/100Vdc(100ms Pulse)
- Input Filter π Type
- Reflected Ripple Current 30mA p-p
- Start-up Time 100ms
- Enable(Optional) Positive/ Negative

Output

- Output Power 10W
- Min Load Current 5%
- Voltage Accuracy $\pm 2\%$
- Line Regulation $\pm 1\%$
- Load Regulation $\pm 2\%$ (5%~100% load)
- Cross Regulation $\pm 5\%$ (25%~100% load)
- Transient Recovery Time 250us
- Transient Response Deviation $\pm 4\%$ of Vout(25% load step)
- Temperature Coefficient $\pm 0.02\%$
- Ripple/Noise 75mV (12V,15V)
50mV (3.3V, 5V)

Protection

- Under Voltage Protection (Input)
- Over Voltage Protection (Zener Diode clamp)
- Over Load Protection (Hiccup)
- Short Circuit Protection (Auto Recovery)
- Internal Thermal Shutdown

General

- Isolation Voltage (In/Out) 1600 Vdc
- Isolation Capacitance 220pF
- Isolation Resistance 1G ohm

Environmental

- Operating Temperature $-40^{\circ}\text{C} \sim 120^{\circ}\text{C}$ (Derating)
- Storage Temperature $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$
- Cooling Free air convection
- Humidity 20% ~ 95%RH
- MTBF >1.0 Million hours

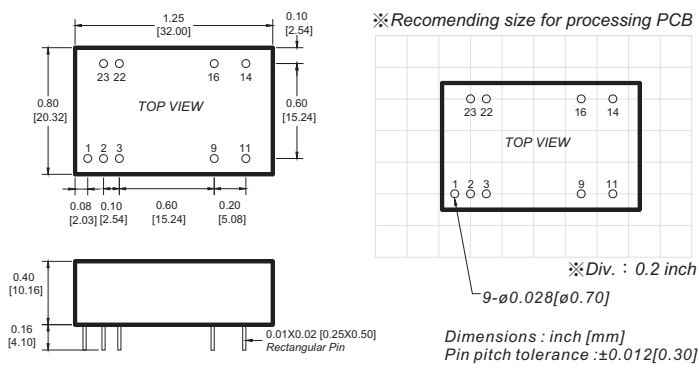
SBS Power Electronic GmbH & Co.KG
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Ordering Information

Module Number	Output Voltage	Output Current	Efficiency	Capacitor Load
HDJ10A-24S3P3	3.3V	3000mA	81%	2200uF
HDJ10A-24S05	5V	2000mA	82%	1000uF
HDJ10A-24S12	12V	835mA	84%	680uF
HDJ10A-24S15	15V	670mA	84%	470uF
HDJ10A-48S3P3	3.3V	3000mA	81%	2200uF
HDJ10A-48S05	5V	2000mA	82%	1000uF
HDJ10A-48S12	12V	835mA	84%	680uF
HDJ10A-48S15	15V	670mA	84%	470uF
HDJ10A-24D05	± 5V	± 1000mA	83%	± 470uF
HDJ10A-24D12	± 12V	± 420mA	84%	± 330uF
HDJ10A-24D15	± 15V	± 335mA	85%	± 220uF
HDJ10A-48D05	± 5V	± 1000mA	83%	± 470uF
HDJ10A-48D12	± 12V	± 420mA	84%	± 330uF
HDJ10A-48D15	± 15V	± 335mA	85%	± 220uF

Pin Define

Pin No.	1	2,3	9	11	14	16	22,23
Single	ENABLE (OPTION)	-VI	NC	NC	+VO	-VO	+VI
Dual	NO PIN	-VI	COM	-VO	+VO	COM	+VI



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 2A 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.