

Specifications

INPUT

Voltage Range

9-18 Vdc

18-36 Vdc 36-75 Vdc

Reverse Polarity Protected

To Nominal Input Current

External Fuse Required

Remote On/Off Control

Optional

OUTPUT

Voltage Tolerance Ripple and Noise

Short Circuit Protection

Temperature Coefficient

± 1% 50mV pk-pk (typ)

Continuous Power Cycle

.02% / °C

GENERAL

Regulation:

Line 0.25%

Load 0.5% (singles)

> 1.0% (duals) 400 kHz (±10%)

Switching Frequency

Efficiency 80-85% (typ) I/O Isolation 1500 Vdc

ENVIRONMENTAL

Operating Temperature -40°C to +60°C

Max Baseplate Temp 105°C

Storage Temperature -55°C to +105°C Cooling Free-air Convection

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

DC/DC

15 Watts

Single/Dual Outputs

- Industry standard form factor 2 x 1 x 0.40
- Three input voltage ranges 9-18 Vdc 18-36 Vdc 36-75 Vdc
- Remote shutdown
- 400kHz switching frequency
- Continuous short circuit protection
- Six-sided shielding
- UL1950, cUL, EN60950

he SC15A series of cost sensitive single and dual output 15 watt DC/DC converters are specifically designed for critical applications requiring a compact, low profile case.

These high performance 15 watt converters offer a high switching frequency topology, 1500 Vdc I/O isolation, and efficiencies to 85%.

Twenty-one models available. Three input voltage ranges of 9-18 Vdc, 18-36 Vdc and 36-75 Vdc provide regulated outputs of 3.3, 5, 12, 15 and ±5, ±12 and ±15 Vdc.

Applications

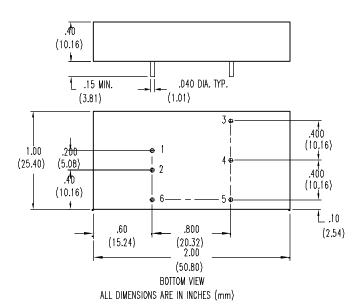
These units are ideally suited for telecommunications, distributed power systems, automatic test equipment, medical and process control.



SEMICONDUCTOR CIRCUITS, INC.

SC15A Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number
9-18 Vdc	3.3 Vdc	3000mA	SC15A17-300-12
9-18 Vdc	5 Vdc	3000mA	SC15A11-300-12
9-18 Vdc	12 Vdc	1250mA	SC15A12-125-12
9-18 Vdc	15 Vdc	1000mA	SC15A13-100-12
9-18 Vdc	±5 Vdc	±1500mA	SC15A21-300-12
9-18 Vdc	±12 Vdc	±625mA	SC15A22-125-12
9-18 Vdc	±15 Vdc	±500mA	SC15A23-100-12
18-36 Vdc	3.3 Vdc	3000mA	SC15A17-300-24
18-36 Vdc	5 Vdc	3000mA	SC15A11-300-24
18-36 Vdc	12 Vdc	1250mA	SC15A12-125-24
18-36 Vdc	15 Vdc	1000mA	SC15A13-100-24
18-36 Vdc	±5 Vdc	±1500mA	SC15A21-300-24
18-36 Vdc	±12 Vdc	±625mA	SC15A22-125-24
18-36 Vdc	±15Vdc	±500mA	SC15A23-100-24
36-75Vdc	3.3 Vdc	3000mA	SC15A17-300-48
36 -75Vdc	5 Vdc	3000mA	SC15A11-300-48
36 -75Vdc	12 Vdc	1250mA	SC15A12-125-48
36 -75Vdc	15 Vdc	1000mA	SC15A13-100-48
36 -75Vdc	±5 Vdc	±1500mA	SC15A21-300-48
36 -75Vdc	±12 Vdc	±625mA	SC15A22-125-48
36 -75Vdc	±15Vdc	±500mA	SC15A23-100-48



PIN CONNECTIONS Single Output

- 1. +Input
- 2. -Input
- 3. +Output
- 4. No Pin
- 5. Common
- 6. Remote On/Off

PIN CONNECTIONS Dual Outputs

- 1. +Input
- 2. -Input
- 3. +Output 4. Common
- 5. -Output
- 6. Remote On/Off

Dimensions and Connections

NOTES:

- 1. Ripple measured with a 3.3 µF tantalum capacitor across each output.
- 2. Minimum load 10% of full load. Load regulation from full load to minimum load.
- 3. The SC15A series requires an external filter capacitor across the input valued at 2.2µF @ 100Vdc such as ITW/Paktron part# 225K100RA4 or equiv.
- 4. Case connected to pin #1 on -48 models. Case connected to pin #2 on -12 and -24 models

For Optional Remote On/Off add suffix "E" (i.e. SC15A11-300-48E)

Remote ON/Off Control (pin 6) common referenced to - Input (pin 2). On greater than 2.5 Vdc or open circuit

Off less than 0.8 Vdc

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