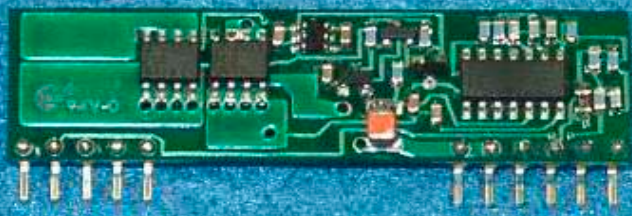


SC10N Series



DC/DC

10 AMPS

Single Outputs

- **Input Ranges**
 - 3.0-3.6 Vdc
 - 4.5-5.5 Vdc
 - 10.8-13.2 Vdc
- **Remote shutdown**
- **300kHz switching frequency**

Specifications

INPUT

Voltage Range	3.0 - 3.6 Vdc 4.5 - 5.5 Vdc 10.8-13.2 Vdc
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Remote On/Off Control	All Models
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OUTPUT

Voltage Tolerance	± 1%
Voltage Adjust	±10%
Ripple and Noise	35mV pk-pk
Short Circuit Protection	Continuous Power Cycle

GENERAL

Line Regulation	0.1%
Load Regulation	0.25% (no minimum load)
Efficiency	85-90% typ
Isolation	Non-galvanically isolated

ENVIRONMENTAL

Operating Temperature	-40°C to +71°C No Derating
Storage Temperature	-40°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.

The 10 Amp SC10N Series of high performance converters offer a high switching frequency topology and efficiencies to 95% typical over varying load conditions of 10% to 100%. Additional features include remote sense, remote on/off control, logic compatible with CMOS or open collector TTL and an operating temperature range of -40°C to +71°C with no derating. Units are packaged in a single inline package measuring 2.00" x 0.55" x 0.35".

Applications

These units are ideally suited for data processing and networking applications requiring point of load regulation such as automotive test equipment, process control and minicomputers.



**SEMICONDUCTOR
CIRCUITS, INC.**

toll-free 888.438.3232 toll-free 888.GET.DCDC

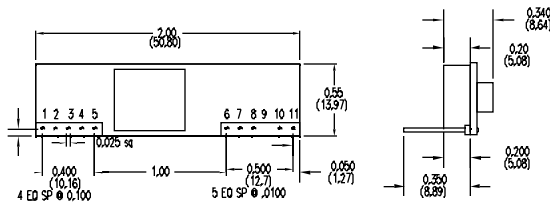
SC10N Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number
3.0-3.6 Vdc	1.0 Vdc	10AMPS	SC10N1X0-33
3.0-3.6 Vdc	1.2 Vdc	10AMPS	SC10N1X2-33
3.0-3.6 Vdc	1.5 Vdc	10AMPS	SC10N1X5-33
3.0-3.6 Vdc	1.8 Vdc	10AMPS	SC10N1X8-33
3.0-3.6 Vdc	2.0 Vdc	10AMPS	SC10N2X0-33
3.0-3.6 Vdc	2.5 Vdc	10AMPS	SC10N2X5-33
4.5-5.5 Vdc	1.0 Vdc	10AMPS	SC10N1X0-5
4.5-5.5 Vdc	1.2 Vdc	10AMPS	SC10N1X2-5
4.5-5.5 Vdc	1.5 Vdc	10AMPS	SC10N1X5-5
4.5-5.5 Vdc	1.8 Vdc	10AMPS	SC10N1X8-5
4.5-5.5 Vdc	2.0 Vdc	10AMPS	SC10N2X0-5
4.5-5.5 Vdc	2.5 Vdc	10AMPS	SC10N2X5-5
4.5-5.5 Vdc	3.3 Vdc	10AMPS	SC10N3X3-5
10.8-13.2 Vdc	1.0 Vdc	10AMPS	SC10N1X0-12
10.8-13.2 Vdc	1.2 Vdc	10AMPS	SC10N1X2-12
10.8-13.2 Vdc	1.5 Vdc	10AMPS	SC10N1X5-12
10.8-13.2 Vdc	1.8 Vdc	10AMPS	SC10N1X8-12
10.8-13.2 Vdc	2.0 Vdc	10AMPS	SC10N2X0-12
10.8-13.2 Vdc	2.5 Vdc	10AMPS	SC10N2X5-12
10.8-13.2 Vdc	3.3 Vdc	10AMPS	SC10N3X3-12
10.8-13.2 Vdc	5.0 Vdc	10AMPS	SC10N5X0-12

PIN CONNECTIONS

1. + Output
2. + Output
3. Remote sense (B option - no pin)
4. + Output
5. Common
6. Common
7. + Input
8. + Input
9. No pin
10. Trim
11. Remote On/Off

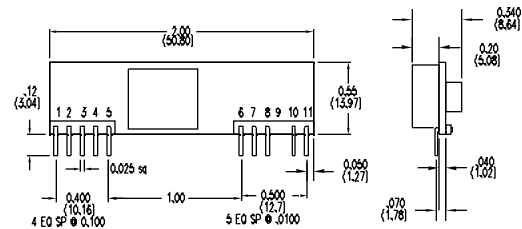
Dimensions and Connections



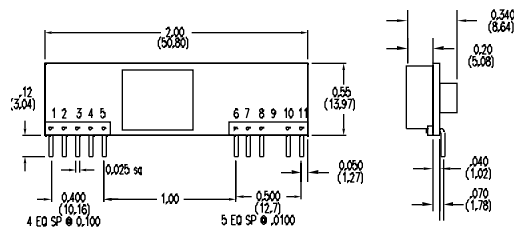
OPTION H

NOTES:

1. Add H suffix for horizontal mount (SC10N-xxx-xxH)
2. Add V suffix for vertical mount (SC10N-xxx-xxV)
3. Add suffix RV for reverse vertical mount (SC10N-xxx-xxRV)
4. Add suffix B for no remote sense (pin 3 removed) (SC10N-xxx-xxHB, -xxRB, -xxRVB)
5. Ripple Measured with a 100 uf, 10 Volt capacitor across output.



OPTION V



OPTION RV Tyco-compatible

03/09/2005