

DC/DC Converters – SVRB_D-40 series

40 WATT (available also 15, 20 and 30 WATT series)
Single Output

FEATURES

- Efficiency up to 90%
- Wide (2:1) Input Range
- 1.5KVDC Input/Output Isolation
- Over Current Protection
- Over Temperature Protection
- Short Circuit Protection
- Over Voltage Protection
- Under Voltage Protection
- Remote Voltage Compensate
- Operating temperature: -40°C to +85°C
- MTBF>1,000,000 hours
- Internal SMD Construction
- Metal Shielding Package 2" x2" x0.42"
- Industry Standard Pinout

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
SVRB1203D-40	9-18	3.3	8000	86
SVRB1205D-40		5	8000	86
SVRB1212D-40		12	3300	86
SVRB1215D-40		15	2666	87
SVRB2403D-40	18-36	3.3	8000	87
SVRB2405D-40		5	8000	89
SVRB2412D-40		12	3300	88
SVRB2415D-40		15	2666	89
SVRB4803D-40	36-75	3.3	8000	88
SVRB4805D-40		5	8000	90
SVRB4812D-40		12	3300	90
SVRB4815D-40		15	2666	90

Input specifications:

Under Voltage protection

9-18V Input	DC-DC Module ON	9 Vdc
	DC-DC Module OFF	8 Vdc
18-36V Input	DC-DC Module ON	17.8 Vdc
	DC-DC Module OFF	16 Vdc
36-75V Input	DC-DC Module ON	36 Vdc
	DC-DC Module OFF	33 Vdc

CTRL

DC-DC Module ON	Open or 3.5V<Vc<12V
DC-DC Module OFF	Short or 0V<Vc<1.2V
Input current < 1mA	

Output specifications:

Voltage accuracy	±1%
Ripple & noise (at 20MHz BW)	75mV pk-pk, typ
Short Circuit Protection	Hiccup
Load regulation	±0.5% (10-100% load)
Temperature coefficient	±0.02%/°C
Over Current protection	120-125%Po
Over Voltage protection	110-130%Vo
Over Temperature protection	115°C

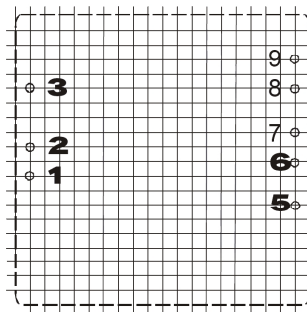
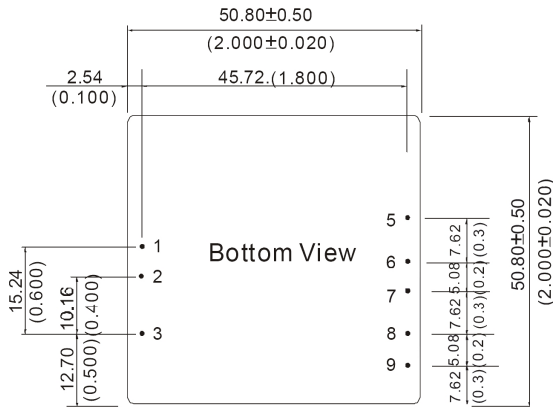
General Specifications:

Switching Frequency	300 kHz, typ
I/O isolation voltage (1 min/1mA)	1500Vdc

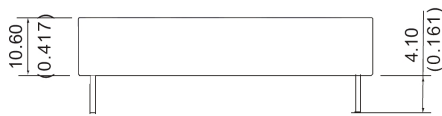
Enviromental specifications:

Operating Temperature	-40°C ~ +85°C
Lead temperature	300°C Max./10 seconds
Storage Temperature	-40°C ~+125°C
Cooling	Nature Convection
Humidity	95%

MECHANICAL DIMENSIONS & PIN CONNECTIONS



PIN #	Function
1	Vin
2	GND
3	Ctrl
5	-Sense
6	+Sense
7	+Vo
8	0V
9	Trim



Notes : All dimensions are typical in millimeters (inches).

1. Pin diameter: 0.5±0.05 (0.02±0.002)
2. Pin pitch tolerance: ±0.35 (±0.014)
3. Case Tolerance: ±0.5 (±0.02)