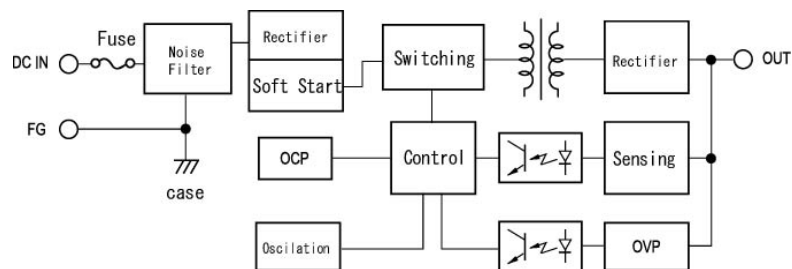


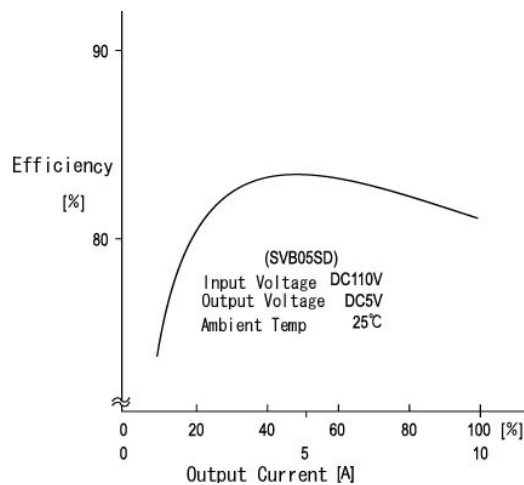
50 WATT DC-DC CONVERTER SVB-SD SERIES

Specifications SVB**SD 50WATTS/1 OUTPUT	Model				
	SVB05SD	SVB12SD	SVB15SD	SVB24SD	SVB48SD
Input Characteristic					
Input Voltage	DC110V				
Input Range	DC85-140V				
Inrush Current *1	20A (maximum) at DC110V				
Efficiency [%] (typical) *2	81	83	84	86	87

Block Diagram



Efficiency Curve



Specifications SVB**SD(50WATTS/1 OUTPUT)	Model				
	SVB05SD	SVB12SD	SVB15SD	SVB24SD	SVB48SD
Output Characteristic					
Output Voltage [V]	5	12	15	24	48
Output Current [A]	10.0	4.3	3.4	2.5	1.1
Voltage Adjust Range	+/-10% of Rated Output Voltage(at no load within input range)				
Ripple and Noise [mVp-p](maximum) *3	150	220	250	340	580
Regulation					
Statistic Line Regulation [mV](maximum)	40	96	120	192	384
Statistic Load Regulation [mV](maximum)	45	108	135	216	432
Temperature Coefficient *4	0.03%/°C				
Drift[mV](maximum) *5	40	75	90	135	255
Dynamic Load Regulation [mV](typical) *6	150	360	450	720	1440
Recovery Time *6	0.3mS(typical)				
Rise up time	500mS(maximum) at 25°C and rated input/output				
Hold up time	10mS(minimum) at 25°C and rated input/output				
Functions					
Over current Protection	Current Limiting with automatic recovery				
≥110% of Rated Output [A]	11.00	4.73	3.74	2.75	1.21
Over voltage Protection	Output shutdown(to reset, leave 1minute after shutdown)				
≥110% of Rated Output [V]	5.50	13.2	16.5	26.4	52.8
Remote Sense	not available				
Remote On/Off	not available				
Reverse Voltage Protection	by internal bridge diode				
Environmental					
Operating Temperature	0 to +50°C				
Operating Humidity	85%RH(non-condensing)				
Storage Temperature	-20 to +85°C				
Storage Humidity	85%RH(non-condensing)				
Withstanding Voltage	Primary-Secondary AC2,000V for 1minute				
	Primary-Frame Ground AC2,000V for 1minute				
	Secondary-Frame Ground AC500V for 1minute				
Isolation Resistance	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester				
Vibration	5-10Hz:10mm double amplitude,10-55Hz:19.6m/s ² ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)				
Shock	294m/s ²				
Cooling	Convection				
<input type="checkbox"/> Line Conduction Noise	Not specified				
<input type="checkbox"/> Safety	-				
Weight (typical)	410g				
<input type="checkbox"/> MTBF [H]	610,000				
<input type="checkbox"/> Switching Frequency[kHz](typical)	140Fix.	140Fix.	140Fix.	140Fix.	140Fix.

Conditions:

*1 at cold start

*2 at DC110V and rated output

*3 measured by a bayonet probe at the output connector at a 0 to 100MHz bandwidth

*4 at 0 to +50°C

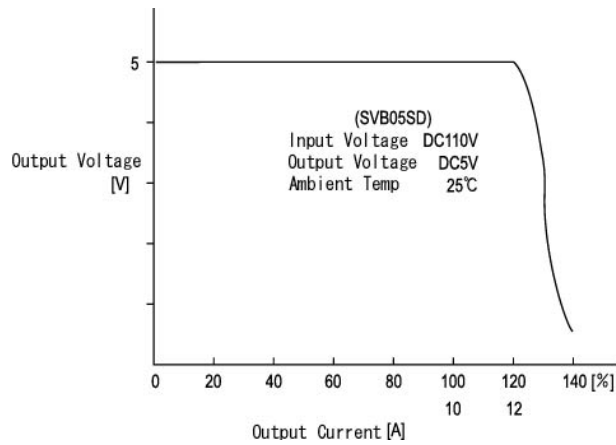
*5 for 7hours from 1hour after switch-on at 25°C and rated input/output

*6 when output current changed from 25% to 75% of rated output current rapidly at DC110 input


ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

OCP Curve



Dimension (mm)

