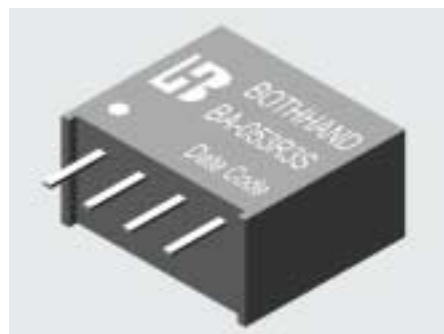


1. Features :

■ 4 Pin SIL Package
■ Low Ripple and Noise
■ Input / Output Isolation 1000 Vdc
■ 100 % Burn-In
■ Input Filter with Internal Capacitor
■ Custom Design Available



2. Absolute maximum ratings :

(Exceeding these values may damage the module. These are not continuous operating ratings)

Parameter	Condition	Min.	Typ.	Max.	Unit
Input Absolute Voltage Range	5V Input Model	-0.7	5	7.5	Vdc
	12V Input Model	-0.7	12	15	
	24V Input Model	-0.7	24	30	
Max. Output power		---	---	1.0	W
Output Short circuit duration		---	---	1.0	Second
Operating temperature	Output Full Load	-40	---	+85	°C
Storage temperature		-55	---	+105	

3. Nominal Input / Output Electrical Specifications :

(Specifications typical at Ta = +25°C , nominal input voltage, rated output current unless otherwise noted)

Parameter	Condition	Min.	Typ.	Max.	Unit
Input Voltage Range	5V Input Model	4.5	5	5.5	Vdc
	12V Input Model	10.8	12	13.2	
	24V Input Model	21.6	24	26.4	
Output Voltage Accuracy	Nominal Input	---	---	± 5.0	%
Voltage Balance (Dual Outputs)		---	---	± 1.0	
Switching Frequency		---	100	---	KHz
Temperature Coefficient		---	± 0.01	± 0.02	% / °C
Isolation Voltage	60 Seconds / 0.5mA	1000	---	---	Vdc
Isolation Resistance	500 Vdc	1000	---	---	MΩ
Isolation Capacitance	1 KHz / 250 mV rms	---	40	---	pF
Max. Line Regulation (Per 1.0 % change in input change)		---	---	1.3	%

4. Single Output Selection Guide :

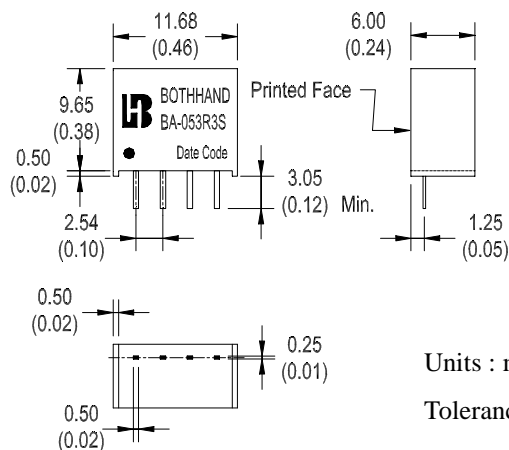
(Specifications typical at Ta = +25 °C, Nominal input voltage, Rated output current unless otherwise noted)

Bothhand Model No.	Input Voltage (Vdc)	Output Voltage (Vdc)	Output Current (mA) Max	Input Current @ No Load (mA) Typ.	Input Current @ Max. Load (mA) Typ.	Output Ripple (mV) Max.	Load Regulation (%) Max.	Efficiency (%) Typ.
0.5 W Single Output Series :								
BA-053R3S	5	3.3	150	28	133	60	± 12	74
BA-0505S		5.0	100	28	135	60	± 10	74
BA-0512S		12.0	42	28	133	100	± 8	76
BA-1205S	12	5.0	100	18	56	60	± 8	74
BA-1212S		12.0	42	18	55	100	± 8	76
BA-2405S	24	5.0	100	5	29	60	± 8	72
1.0 W Single Output Series :								
BA-053R3S1	5	3.3	300	30	267	60	± 10	74
BA-0505S1		5.0	200	30	253	60	± 8	79
BA-0512S1		12.0	100	30	307	100	± 8	78
BA-1205S1	12	5.0	200	14	105	60	± 8	79
BA-1212S1		12.0	83	14	105	100	± 8	79
BA-2405S1	24	5.0	200	5	54	60	± 8	77
BA-xxxxS1								

Notes :

- Standard output voltage is 3.3V, 5V, 9V, 12V, 15V, BA-xxxxS1 is for Customer Design.
- Load regulation is for Each output current change from 20 % to 100 % Max. Load.

Mechanical Dimension :



Pin	1K Vdc - Single
1	-Vin
2	+Vin
3	Vo (-)
4	Vo (+)

Note : " --- " means Omitted