

## ABNORMAL TEST RESULT

OF MODEL ACS300B-2, 3R3, 5, 12, 24, 48

1. Did Cheese Cloth or Paper Glow?

No.

2. Did Ground Fuse Open?

No.

3. Dielectric breakdown?

No.

4. Other Results?

See the following pages .

( FMEA : 2/18 ~ 17/18)

( Abnormal Test Result: 18/18 ~ 18/18)

There was no emission of flame, molten metal, ignition of cheesecloth, dielectric breakdown, opening of the ground fuse, other indication of a shock or fire hazard.

## F M E A

Component	Mode		Comment	Output Voltage (V)
C202	Open		Normal operation.	
	Short		No Hazard.	0V
C203	Open		No Hazard.	0V
	Short		No Hazard.	0V
C204	Open		Normal operation.	
	Short		Normal operation.	
C205	Open		Output voltage decreased. No hazard.	
	Short		Normal operation.	
C206	Open		Normal operation.	
	Short		Normal operation.	
C207	Open	Except 24, 48	Normal operation.	
	Short	Except 24, 48	Normal operation.	
C208	Open	Except 24, 48	Normal operation.	
	Short	Except 24, 48	Normal operation.	
C209	Open		Normal operation.	
	Short		No Hazard.	0V
C210	Open		Normal operation.	
	Short		Normal operation.	
C211	Open	Except 12, 48	Normal operation.	
	Short	Except 12, 48	Normal operation.	
C212	Open	Except 12, 48	Normal operation.	
	Short	Except 12, 48	Normal operation.	
C213	Open	Only 2, 3R3, 5	Normal operation.	
	Short	Only 2, 3R3, 5	No Hazard.	0V

## F M E A

Component	Mode		Comment	Output Voltage (V)
C214	Open	Except 12	Normal operation.	
	Short	Except 12	Normal operation.	
C215	Open	Except 12	Normal operation.	
	Short	Except 12	Normal operation.	
C251	Open		Output voltage decreased. No hazard.	
	Short		Normal operation.	
C252	Open		Normal operation.	
	Short		Normal operation.	
C281	Open	Only 12, 24, 48	Normal operation.	
	Short	Only 12, 24, 48	Normal operation.	
C282	Open	Only 12, 24, 48	Normal operation.	
	Short	Only 12, 24, 48	Normal operation.	
C283	Open	Only 12, 24, 48	No Hazard.	0V
	Short	Only 12, 24, 48	Normal operation.	
C284	Open	Only 12, 24, 48	Normal operation.	
	Short	Only 12, 24, 48	No Hazard.	0V
C501	Open		Normal operation.	
	Short		Normal operation.	
C502	Open		Normal operation.	
	Short		Normal operation.	
C503	Open		Normal operation.	
	Short		Normal operation.	
C504	Open		Normal operation.	
	Short		Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
C505	Open		Normal operation.	
	Short		No Hazard.	0V
C506	Open		Normal operation.	
	Short		No Hazard.	0V
C507	Open		Normal operation.	
	Short		No Hazard.	0V
C512	Open	Only 2, 3R3, 5	Output voltage decreased. No hazard.	
	Short	Only 2, 3R3, 5	Output voltage decreased. No hazard.	
C513	Open	Except 48	Output voltage decreased. No hazard.	
	Short	Except 48	Output voltage decreased. No hazard.	
C515	Open		Normal operation.	
	Short		Normal operation.	
C516	Open	Only 3R3, 48	Normal operation.	
	Short	Only 3R3, 48	Normal operation.	
C517	Open	Only 2, 3R3	Normal operation.	
	Short	Only 2, 3R3	Normal operation.	
C519	Open		Normal operation.	
	Short		Normal operation.	
C520	Open		Normal operation.	
	Short		Normal operation.	
C523	Open		Normal operation.	
	Short		Normal operation.	
C524	Open	Except 2, 48	Normal operation.	
	Short	Except 2, 48	No Hazard.	0V

## F M E A

Component	Mode		Comment	Output Voltage (V)
C525	Open	Only 3R3, 5	Normal operation.	
	Short	Only 3R3, 5	No Hazard.	0V
C527	Open	Only 48	Output voltage decreased. No hazard.	
	Short	Only 48	Output voltage decreased. No hazard.	
C528	Open	Only 48	Normal operation.	
	Short	Only 48	No Hazard.	0V
C530	Open		Normal operation.	
	Short		Normal operation.	
C581	Open	Only 2	Normal operation.	
	Short	Only 2	Normal operation.	
C582	Open	Only 2	Normal operation.	
	Short	Only 2	Normal operation.	
C583	Open	Only 2	Normal operation.	
	Short	Only 2	Output voltage decreased. No hazard.	
D201	Open		Normal operation.	
	Short		Normal operation.	
D202	Open		Normal operation.	
	Short		Normal operation.	
D203	Open		Normal operation.	
	Short		No Hazard.	0V
D204	Open		No Hazard.	0V
	Short		Normal operation.	
D251	Open		Normal operation.	
	Short		Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
D281	Open	Only 12, 24, 48	Normal operation.	
	Short	Only 12, 24, 48	Normal operation.	
D282	Open	Only 12, 24, 48	Normal operation.	
	Short	Only 12, 24, 48	Normal operation.	
D283	Open	Only 12, 24, 48	Normal operation.	
	Short	Only 12, 24, 48	Normal operation.	
D284	Open	Only 12, 24, 48	Output voltage decreased. No hazard.	
	Short	Only 12, 24, 48	No Hazard.	0V
D285	Open	Only 12, 24, 48	Normal operation.	
	Short	Only 12, 24, 48	Normal operation.	
D501	Open	Except 2	Normal operation.	
	Short	Except 2	Normal operation.	
D502	Open	Except 2	Normal operation.	
	Short	Except 2	Normal operation.	
D581	Open	Only 2	Output voltage decreased. No hazard.	
	Short	Only 2	Output voltage decreased. No hazard.	
D582	Open	Only 2	Output voltage decreased. No hazard.	
	Short	Only 2	Output voltage decreased. No hazard.	
F501	Open		No Hazard.	0V
F502	Open		No Hazard.	0V
IC201	Open	1	No Hazard.	0V
		2	No Hazard.	0V
		3	F701 opened, No hazard.	0V
		4	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	5	Normal operation.	
		6	Normal operation.	
		7	Normal operation.	
		8	Normal operation.	
		9	Normal operation.	
		10	No Hazard.	0V
		11	No Hazard.	0V
		12	No Hazard.	0V
		13	Output voltage decreased. No hazard.	
		14	Normal operation.	
		15	Normal operation.	
		16	Normal operation.	
		17	No Hazard.	0V
		18	Output voltage decreased. No hazard.	
		19	Output voltage decreased. No hazard.	
		20	No Hazard.	0V
	Short	1-2	Normal operation.	
		2-3	No Hazard.	0V
		3-4	Normal operation.	
		4-5	Normal operation.	
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	Normal operation.	
		8-9	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Short	9-10	No Hazard.	0V
		11-12	No Hazard.	0V
		12-13	No Hazard.	0V
		13-14	Normal operation.	
		14-15	Normal operation.	
		15-16	Normal operation.	
		16-17	Normal operation.	
		17-18	Normal operation.	
		18-19	Normal operation.	
		19-20	No Hazard.	0V
IC281	Open	K Only 12, 24, 48	Normal operation.	
		A Only 12, 24, 48	Normal operation.	
		R Only 12, 24, 48	Normal operation.	
	Short	A-K Only 12, 24, 48	No Hazard.	0V
		K-R Only 12, 24, 48	Normal operation.	
		R-A Only 12, 24, 48	Normal operation.	
IC282	Open	1 Only 12, 24, 48	Normal operation.	
		2 Only 12, 24, 48	Normal operation.	
		3 Only 12, 24, 48	Normal operation.	
		4 Only 12, 24, 48	No Hazard.	0V
		5 Only 12, 24, 48	Normal operation.	
		6 Only 12, 24, 48	Normal operation.	
		7 Only 12, 24, 48	No Hazard.	0V
		8 Only 12, 24, 48	Normal operation.	



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC282	Short	1-2 Only 12, 24, 48	Normal operation.	
		2-3 Only 12, 24, 48	Normal operation.	
		3-4 Only 12, 24, 48	Normal operation.	
		5-6 Only 12, 24, 48	Normal operation.	
		6-7 Only 12, 24, 48	No Hazard.	0V
		7-8 Only 12, 24, 48	Normal operation.	
IC501	Open	K	No Hazard.	0V
		A	No Hazard.	0V
		R	No Hazard.	0V
	Short	A-K	Output voltage decreased. No hazard.	
		K-R	Output voltage decreased. No hazard.	
		R-A	No Hazard.	0V
L507	Open		See 18 Page.	
	Short		See 18 Page.	
L509	Open		Normal operation.	
	Short		Normal operation.	
L581	Open	Only 2	Output voltage decreased. No hazard.	
	Short	Only 2	Normal operation.	
PC201	Open	A, K	No Hazard.	0V
		C, E	No Hazard.	0V
	Short	A-K	No Hazard.	0V
		C-E	No Hazard.	0V
PC202	Open	A, K	Normal operation.	
		C, E	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
PC202	Short	A-K	Normal operation.	
		C-E	No Hazard.	0V
PC203	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	0V
R201	Open		No Hazard.	0V
R202	Open		No Hazard.	0V
R203	Open		Normal operation.	
R204	Open		Normal operation.	
R205	Open		No Hazard.	0V
R206	Open		No Hazard.	0V
R207	Open		No Hazard.	0V
R208	Open		Output voltage decreased. No hazard.	
R209	Open		Normal operation.	
R210	Open		Normal operation.	
R211	Open		Normal operation.	
R212	Open		F701 opened, No hazard.	0V
R213	Open		Normal operation.	
R214	Open		Output voltage decreased. No hazard.	
R215	Open		Normal operation.	
R216	Open		Normal operation.	
R217	Open		Output voltage decreased. No hazard.	
R218	Open		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R219	Open	Only 2, 3R3, 5	Normal operation.	
R220	Open		F701 opened, No hazard.	0V
R221	Open		Output voltage decreased. No hazard.	
R222	Open	Except 3R3, 5	Normal operation.	
R240	Open	Except 24, 48	Normal operation.	
R251	Open		Normal operation.	
R252	Open		Normal operation.	
R253	Open		Normal operation.	
R254	Open		Normal operation.	
R255	Open		Output voltage decreased. No hazard.	
R256	Open		Normal operation.	
R257	Open		Normal operation.	
R258	Open		Normal operation.	
R259	Open		Output voltage decreased. No hazard.	
R281	Open	Only 12, 24, 48	F701 opened, No hazard.	0V
R282	Open		Normal operation.	
R283	Open		Normal operation.	
R284	Open	Only 12, 24, 48	Normal operation.	
R285	Open	Only 12, 24, 48	Normal operation.	
R286	Open	Only 12, 24, 48	No Hazard.	0V
R287	Open	Only 12, 24, 48	No Hazard.	0V
R288	Open	Only 12, 24, 48	Normal operation.	
R289	Open	Only 12, 24, 48	Normal operation.	
R290	Open	Only 12, 24, 48	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
R291	Open	Only 12, 24, 48	Normal operation.	
R292	Open	Only 12, 24, 48	Normal operation.	
R293	Open	Only 12, 24, 48	Normal operation.	
R294	Open	Only 12, 24, 48	Normal operation.	
R295	Open	Only 12, 24, 48	Normal operation.	
R501	Open		Normal operation.	
R502	Open		Normal operation.	
R503	Open		No Hazard.	0V
R504	Open		Normal operation.	
R505	Open		Output voltage decreased. No hazard.	
R506	Open		No Hazard.	0V
R507	Open		Output voltage decreased. No hazard.	
R509	Open		No Hazard.	0V
R510	Open		Normal operation.	
R511	Open		Normal operation.	
R512	Open		Normal operation.	
R513	Open		Normal operation.	
R514	Open	Except 2, 3R3, 5	Normal operation.	
R515	Open	Except 2, 3R3, 5	Normal operation.	
R516	Open	Only 48	Normal operation.	
R518	Open		Normal operation.	
R519	Open		Normal operation.	
R520	Open	Only 48	No Hazard.	0V
R541	Open		Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
R542	Open		Normal operation.	
R544	Open		No Hazard.	0V
R549	Open	Except 2	Normal operation.	
R551	Open		Normal operation.	
R552	Open		Normal operation.	
R553	Open		Normal operation.	
R554	Open		Normal operation.	
R555	Open		Normal operation.	
R556	Open		Normal operation.	
R557	Open		Normal operation.	
R558	Open		Normal operation.	
R559	Open		Normal operation.	
R560	Open		Normal operation.	
R561	Open		Normal operation.	
R562	Open		Normal operation.	
R563	Open		Normal operation.	
R564	Open		Normal operation.	
R565	Open		Normal operation.	
R566	Open		Normal operation.	
R567	Open	Only 2, 3R3, 5	Normal operation.	
R568	Open	Only 2, 3R3, 5	Normal operation.	
R569	Open	Only 2, 3R3, 5	Normal operation.	
R570	Open	Only 2, 3R3, 5	Normal operation.	
R571	Open	Only 2	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
R572	Open	Only 2	Normal operation.	
R573	Open	Only 2	Normal operation.	
R574	Open	Only 2	Normal operation.	
R575	Open	Only 2	Normal operation.	
R576	Open	Only 2	Normal operation.	
R581	Open	Only 2	No Hazard.	0V
R582	Open	Only 2	No Hazard.	0V
R583	Open	Only 2	No Hazard.	0V
R584	Open	Only 2	No Hazard.	0V
SS501	Open	Cathode	See 18 Page.	
		Anode (Forward)	See 18 Page.	
		Anode (Flyback)	See 18 Page.	
	Short	C-A (Forward)	See 18 Page.	
		C-A (Flyback)	See 18 Page.	
SS502	Open		See 18 Page.	
	Short		See 18 Page.	
T201	Open	2 or 3	No Hazard.	0V
		7, 8 or 9, 10	See 18 Page.	
		10 or 11 Only 2	No Hazard.	0V
	Short	2-3	F701 opened, No hazard.	0V
		7, 8-9, 10	F701 opened, No hazard.	0V
		10-11 Only 2	F701 opened, No hazard.	0V
TR201	Open	D	See 18 Page.	
		S	See 18 Page.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR201	Open	G	F701 opened, No hazard.	0V
	Short	D-S	F701 opened, No hazard.	0V
		S-G	See 18 Page.	
		G-D	F701 opened, No hazard.	0V
TR202	Open	D	See 18 Page.	
		S	See 18 Page.	
		G	F701 opened, No hazard.	0V
	Short	D-S	F701 opened, No hazard.	0V
		S-G	See 18 Page.	
		G-D	F701 opened, No hazard.	0V
TR203	Open	C	F701 opened, No hazard.	0V
		E	F701 opened, No hazard.	0V
		B	F701 opened, No hazard.	0V
	Short	C-E	No Hazard.	0V
		E-B	Normal operation.	
		B-C	No Hazard.	0V
TR204	Open	C	No Hazard.	0V
		E	No Hazard.	0V
		B	No Hazard.	0V
	Short	C-E	Normal operation.	
		E-B	No Hazard.	0V
		B-C	Normal operation.	
TR251	Open	C	Normal operation.	
		E	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR251	Open	B	Normal operation.	
	Short	C-E	Output voltage decreased. No hazard.	
		E-B	Output voltage decreased. No hazard.	
		B-C	Output voltage decreased. No hazard.	
TR281	Open	C Only 12, 24, 48	No Hazard.	0V
		E Only 12, 24, 48	No Hazard.	0V
		B Only 12, 24, 48	No Hazard.	0V
	Short	C-E Only 12, 24, 48	Normal operation.	
		E-B Only 12, 24, 48	No Hazard.	0V
		B-C Only 12, 24, 48	Normal operation.	
TR501	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
VR201	Open	brush	Output voltage decreased. No hazard.	
			Output voltage decreased. No hazard.	
VR501	Open	brush	Output voltage decreased. No hazard.	
			Output voltage decreased. No hazard.	
ZD201	Open	Except 3R3, 5	Normal operation.	
	Short	Except 3R3, 5	Normal operation.	
ZD251	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	



## F M E A

Component	Mode		Comment	Output Voltage (V)
ZD281	Open	Only 12, 24, 48	Normal operation.	
	Short	Only 12, 24, 48	No Hazard.	0V
ZD282	Open	Only 12, 24, 48	Normal operation.	
	Short	Only 12, 24, 48	Normal operation.	
ZD501	Open		Normal operation.	
	Short		No Hazard.	0V
ZD502	Open	Only 24, 48	Normal operation.	
	Short	Only 24, 48	No Hazard.	0V
ZD503	Open	Only 48	No Hazard.	0V
	Short	Only 48	Output voltage decreased. No hazard.	
ZD505	Open	Only 24, 48	Normal operation.	
	Short	Only 24, 48	Normal operation.	
ZD506	Open	Except 2, 3R3	Normal operation.	
	Short	Except 2, 3R3	Normal operation.	
ZD581	Open	Only 2	Normal operation.	
	Short	Only 2	Output voltage decreased. No hazard.	
J202	Open		Normal operation.	
J501	Open	Except 24, 48	Normal operation.	
J502	Open	Except 2, 48	No Hazard.	0V
J505	Open	Except 24, 48	Normal operation.	
J506	Open	Only 2, 3R3	Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
L507	Open		F701 opened, No hazard.	0V
	Short		No Hazard.	0V
SS501	Open	Cathode	F701 opened, No hazard.	0V
		Anode (forward)	F701 opened, No hazard.	0V
		Anode (Flyback)	Normal operation.	
	Short	C-A (Forward)	No Hazard.	0V
		C-A (Flyback)	No Hazard.	0V
SS502	Open		Normal operation.	
	Short		No Hazard.	0V
T201	Open	7, 8 or 9, 10	F701 opened, No hazard.	0V
TR201	Open	D	F701 opened, No hazard.	0V
		S	F701 opened, No hazard.	0V
	Short	S-G	No Hazard.	0V
TR202	Open	D	F701 opened, No hazard.	0V
		S	F701 opened, No hazard.	0V
	Short	S-G	No Hazard.	0V