

ABNORMAL TEST RESULT

OF MODEL FCA50F-24

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 : 2/16 ~ 14/16)

(Abnormal Test Result: 15/16 ~ 16/16)

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)
C1	Open	Normal operation.	
	Short	Normal operation.	
C4	Open	See 15 Page.	
	Short	See 15 Page.	
C5	Open	See 15 Page.	
	Short	See 15 Page.	
C6	Open	Normal operation.	
	Short	Normal operation.	
C7	Open	Normal operation.	
	Short	Normal operation.	
C8	Open	Normal operation.	
	Short	Normal operation.	
C9	Open	Normal operation.	
	Short	Normal operation.	
C10	Open	No Hazard.	0V
	Short	Normal operation.	
C12	Open	Normal operation.	
	Short	Normal operation.	
C13	Open	Normal operation.	
	Short	No Hazard.	0V
C14	Open	Normal operation.	
	Short	No Hazard.	0V
C15	Open	No Hazard.	0V
	Short	No Hazard.	0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C16	Open	Normal operation.	
	Short	Normal operation.	
C17	Open	Normal operation.	
	Short	Normal operation.	
C18	Open	No Hazard.	Decreased
	Short	Normal operation.	
C20	Open	Normal operation.	
	Short	Normal operation.	
C51	Open	Normal operation.	
	Short	Normal operation.	
C52	Open	Normal operation.	
	Short	Normal operation.	
C53	Open	No Hazard.	Decreased
	Short	No Hazard.	0V
C54	Open	Normal operation.	
	Short	Normal operation.	
C55	Open	Normal operation.	
	Short	No Hazard.	0V
C56	Open	Normal operation.	
	Short	Normal operation.	
C57	Open	Normal operation.	
	Short	Normal operation.	
C60	Open	Normal operation.	
	Short	No Hazard.	0V

F M E A

Component	Mode	Comment	Output Voltage (V)
C61	Open	Normal operation.	
	Short	Normal operation.	
D1	Open	Normal operation.	
	Short	Normal operation.	
D2	Open	Normal operation.	
	Short	Normal operation.	
D3	Open	Normal operation.	
	Short	Normal operation.	
D4	Open	Normal operation.	
	Short	Normal operation.	
D5	Open	Normal operation.	
	Short	Normal operation.	
D6	Open	Normal operation.	
	Short	Normal operation.	
D7	Open	Normal operation.	
	Short	Normal operation.	
D8	Open	Normal operation.	
	Short	Normal operation.	
D9	Open	No Hazard.	0V
	Short	See 15 Page.	
D10	Open	Normal operation.	
	Short	No Hazard.	0V
D11	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
D12	Open		Normal operation.	
	Short		See 15 Page.	
D13	Open		Normal operation.	
	Short		Normal operation.	
D14	Open		Normal operation.	
	Short		See 15 Page.	
D15	Open		Normal operation.	
	Short		Normal operation.	
D21	Open		Normal operation.	
	Short		Normal operation.	
F1	Open		No Hazard.	0V
	Short		Normal operation.	
IC11	Open	1	No Hazard.	0V
		2	No Hazard.	0V
		3	No Hazard.	0V
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
		7	Normal operation.	
		8	Normal operation.	
		9	Normal operation.	
		10	No Hazard.	0V
		11	See 15 Page.	
		12	See 15 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC11	Open	13	See 15 Page.	
		14	Normal operation.	
		15	Normal operation.	
		16	Normal operation.	
		17	No Hazard.	0V
		18	Normal operation.	
		19	Normal operation.	
		20	No Hazard.	0V
	Short	1-2	See 15 Page.	
		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.	
		9-10	No Hazard.	0V
		11-12	No Hazard.	0V
		12-13	No Hazard.	0V
		13-14	See 15 Page.	
		14-15	Normal operation.	
		15-16	Normal operation.	
		16-17	Normal operation.	
		17-18	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC11	Short	18-19	Normal operation.	
		19-20	No Hazard.	0V
IC51	Open	K	No Hazard.	0V
		A	No Hazard.	0V
		R	No Hazard.	0V
	Short	A-K	No Hazard.	Decreased
		K-R	No Hazard.	Decreased
		R-A	No Hazard.	0V
L1	Open		No Hazard.	0V
	Short	L (IN) -L (OUT)	Normal operation.	
		L-N	F1 opened, No Hazard.	0V
L51	Open	1	See 15 Page.	
		6	Normal operation.	
		7	See 15 Page.	
		8	Normal operation.	
		12	Normal operation.	
	Short	1-7	See 15 Page.	
LED51	Open		Normal operation.	
	Short		Normal operation.	
PC1	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	0V
PC2	Open	A, K	No Hazard.	0V

F M E A

Component	Mode		Comment	Output Voltage (V)
PC2	Open	C, E	No Hazard.	0V
	Short	A-K	No Hazard.	0V
		C-E	No Hazard.	Decreased
SS51	Open	Cathode	See 15 Page.	
		Forward side	See 15 Page.	
		Flyback side	See 15 Page.	
	Short	Forward side	See 15 Page.	
		Flyback side	See 15 Page.	
T1	Open	1	No Hazard.	0V
		2	No Hazard.	0V
		5	No Hazard.	0V
		6	No Hazard.	0V
		7	No Hazard.	0V
		8	No Hazard.	0V
	Short	1-2	No Hazard.	0V
		5-6	No Hazard.	0V
		6-7	No Hazard.	0V
T2	Open	1	No Hazard.	0V
		2	No Hazard.	0V
		3	No Hazard.	0V
		4	No Hazard.	0V
		6	No Hazard.	0V
		7	No Hazard.	0V

F M E A

Component	Mode		Comment	Output Voltage (V)
T2	Open	8	No Hazard.	0V
		9	No Hazard.	0V
	Short	1-2	No Hazard.	0V
		2-3	See 15 Page.	
		3-4	See 15 Page.	
		6-7	Normal operation.	
		7-8	See 15 Page.	
		8-9	Normal operation.	
TH1	Open		No Hazard.	0V
	Short		Normal operation.	
TH2	Open		No Hazard.	0V
	Short		Normal operation.	
TR2	Open	C	No Hazard.	0V
		E	No Hazard.	0V
		B	No Hazard.	0V
	Short	C-E	See 15 Page.	
		E-B	See 16 Page.	
		B-C	See 16 Page.	
TR4	Open	D	See 16 Page.	
		S	See 16 Page.	
		G	See 16 Page.	
	Short	D-S	See 16 Page.	
		S-G	See 16 Page.	
		G-D	See 16 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR5	Open	D	See 16 Page.	
		S	See 16 Page.	
		G	See 16 Page.	
	Short	D-S	See 16 Page.	
		S-G	See 16 Page.	
		G-D	See 16 Page.	
VR51	Open	brush	No Hazard.	18V
			No Hazard.	0V
	Short		No Hazard.	28V
ZD1	Open		Normal operation.	0V
	Short		No Hazard.	0V
ZD3	Open		No Hazard.	0V
	Short		No Hazard.	0V
ZD51	Open		Normal operation.	
	Short		No Hazard.	0V
ZD52	Open		Normal operation.	
	Short		No Hazard.	0V
R1	Open		Normal operation.	
R2	Open		Normal operation.	
R3	Open		Normal operation.	
R4	Open		Normal operation.	
R5	Open		Normal operation.	
R6	Open		Normal operation.	
R7	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R8	Open	Normal operation.	
R9	Open	Normal operation.	
R10	Open	Normal operation.	
R11	Open	Normal operation.	
R12	Open	Normal operation.	
R13	Open	Normal operation.	
R14	Open	Normal operation.	
R15	Open	Normal operation.	
R16	Open	Normal operation.	
R17	Open	Normal operation.	
R18	Open	Normal operation.	
R19	Open	Normal operation.	
R20	Open	Normal operation.	
R21	Open	Normal operation.	
R22	Open	Normal operation.	
R23	Open	No Hazard.	0V
R24	Open	No Hazard.	0V
R25	Open	No Hazard.	0V
R26	Open	Normal operation.	
R27	Open	Normal operation.	
R28	Open	Normal operation.	
R29	Open	Normal operation.	
R31	Open	No Hazard.	0V
R34	Open	See 16 Page.	

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Component	Mode	Comment	Output Voltage (V)
R35	Open	See 16 Page.	
R36	Open	Normal operation.	
R37	Open	Normal operation.	
R38	Open	Normal operation.	
R39	Open	No Hazard.	0V
R42	Open	Normal operation.	
R43	Open	Normal operation.	
R44	Open	Normal operation.	
R45	Open	Normal operation.	
R46	Open	Normal operation.	
R47	Open	No Hazard.	0V
R48	Open	No Hazard.	0V
R49	Open	No Hazard.	0V
R51	Open	Normal operation.	
R52	Open	Normal operation.	
R53	Open	Normal operation.	
R54	Open	No Hazard.	0V
R55	Open	Normal operation.	
R56	Open	No Hazard.	0V
R59	Open	Normal operation.	
R60	Open	Normal operation.	
R61	Open	Normal operation.	
R62	Open	Normal operation.	
R63	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R64	Open	Normal operation.	
R65	Open	Normal operation.	
R66	Open	No Hazard.	0V
R67	Open	No Hazard.	0V
R69	Open	Normal operation.	
R71	Open	Normal operation.	
R72	Open	Normal operation.	
R73	Open	Normal operation.	
R74	Open	Normal operation.	
R75	Open	Normal operation.	
R76	Open	Normal operation.	
R77	Open	Normal operation.	
R78	Open	Normal operation.	
R79	Open	Normal operation.	
R80	Open	Normal operation.	
R81	Open	Normal operation.	
R82	Open	Normal operation.	
R83	Open	No Hazard.	0V
R84	Open	No Hazard.	0V
R85	Open	No Hazard.	0V
R86	Open	No Hazard.	0V
R87	Open	No Hazard.	0V
R88	Open	No Hazard.	0V
R89	Open	No Hazard.	0V

F M E A

Component	Mode	Comment	Output Voltage (V)
R90	Open	No Hazard.	0V
R91	Open	Normal operation.	
R92	Open	Normal operation.	
R93	Open	Normal operation.	
R94	Open	Normal operation.	
R95	Open	Normal operation.	
R96	Open	Normal operation.	
R110	Open	Normal operation.	
R114	Open	Normal operation.	
R115	Open	Normal operation.	
R116	Open	Normal operation.	
R117	Open	Normal operation.	
R121	Open	Normal operation.	
J101	Open	Normal operation.	
J102	Open	No Hazard.	0V
J103	Open	Normal operation.	
J104	Open	Normal operation.	
JP1	Open	Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C4	Open		No Hazard.	Decreased
	Short		F1 opened, No Hazard.	0V
C5	Open		No Hazard.	Decreased
	Short		F1 opened, No Hazard.	0V
D9	Short		No Hazard.	0V
D12	Short		No Hazard.	0V
D14	Short		No Hazard.	0V
IC11	Open	11	No Hazard.	0V
		12	No Hazard.	0V
		13	No Hazard.	Decreased
	Short	1-2	No Hazard.	0V
		13-14	No Hazard.	Decreased
L51	Open	1	No Hazard.	0V
		7	No Hazard.	0V
	Short	1-7	No Hazard.	Decreased
SS51	Open	Cathode	No Hazard.	0V
		Forward side	No Hazard.	Decreased
		Flyback side	No Hazard.	Decreased
	Short	Forward side	No Hazard.	Decreased
		Flyback side	No Hazard.	0V
T2	Short	2-3	No Hazard.	Decreased
		3-4	No Hazard.	0V
		7-8	No Hazard.	0V
TR2	Short	C-E	No Hazard.	0V

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR2	Short	E-B	No Hazard.	Decreased
		B-C	No Hazard.	0V
TR4	Open	D	No Hazard.	0V
		S	No Hazard.	0V
		G	No Hazard.	0V
	Short	D-S	No Hazard.	0V
		S-G	No Hazard.	0V
		G-D	No Hazard.	0V
TR5	Open	D	No Hazard.	0V
		S	No Hazard.	0V
		G	No Hazard.	0V
	Short	D-S	No Hazard.	0V
		S-G	No Hazard.	0V
		G-D	No Hazard.	0V
R34	Open		No Hazard.	0V
R35	Open		No Hazard.	0V