

## ABNORMAL TEST RESULT

OF MODEL LEA150F

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 : 2/19 ~ 16/19)

( Abnormal Test Result: 17/19 ~ 19/19)

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
C101	Open	Normal operation.	
	Short	F101 opened, No hazard.	0V
C102	Open	Normal operation.	
	Short	F101 opened, No hazard.	0V
C103	Open	Normal operation.	
	Short	F101 opened, No hazard.	0V
C104	Open	Normal operation.	
	Short	F101 opened, No hazard.	0V
C108	Open	Normal operation.	
	Short	No Hazard.	0V
C109	Open	Normal operation.	
	Short	No Hazard.	0V
C110	Open	Normal operation.	
	Short	Normal operation.	
C111	Open	See 18 Page.	
	Short	No Hazard.	0V
C112	Open	See 18 Page.	
	Short	See 18 Page.	
C113	Open	Normal operation.	
	Short	No Hazard.	0V
C114	Open	Normal operation.	
	Short	Normal operation.	
C115	Open	F101 opened, No hazard.	0V
	Short	No Hazard.	0V

## F M E A

Component	Mode	Comment	Output Voltage
C116	Open	Normal operation.	
	Short	No Hazard.	0V
C117	Open	Normal operation.	
	Short	No Hazard.	0V
C118	Open	Normal operation.	
	Short	Normal operation.	
C119	Open	See 18 Page.	
	Short	F101 opened, No hazard.	0V
C201	Open	See 18 Page.	
	Short	No Hazard.	0V
C202	Open	Normal operation.	
	Short	Normal operation.	
C203	Open	See 18 Page.	
	Short	No Hazard.	0V
C204	Open	Normal operation.	
	Short	Normal operation.	
C205	Open	No Hazard.	Decreased
	Short	Normal operation.	
C206	Open	Normal operation.	
	Short	Normal operation.	
C207	Open	Normal operation.	
	Short	Normal operation.	
C211	Open	Normal operation.	
	Short	Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage
C212	Open	Normal operation.	
	Short	Normal operation.	
C503	Open	Normal operation.	
	Short	Normal operation.	
C504	Open	Normal operation.	
	Short	Normal operation.	
C505	Open	Normal operation.	
	Short	Normal operation.	
C506	Open	Normal operation.	
	Short	Normal operation.	
C507 Only-5	Open	Normal operation.	
	Short	No Hazard.	0V
C508	Open	Normal operation.	
	Short	No Hazard.	0V
C509	Open	Normal operation.	
	Short	No Hazard.	0V
C510	Open	No Hazard.	Decreased
	Short	No Hazard.	Decreased
C511 Only-5	Open	No Hazard.	Decreased
	Short	No Hazard.	Decreased
D103	Open	No Hazard.	0V
	Short	Normal operation.	
D104	Open	Normal operation.	
	Short	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage
D105	Open		Normal operation.	
	Short		Normal operation.	
D106	Open		See 18 Page.	
	Short		See 18 Page.	
D107	Open		See 18 Page.	
	Short		See 18 Page.	
D108	Open		Normal operation.	
	Short		No Hazard.	0V
D109	Open		Normal operation.	
	Short		Normal operation.	
D110	Open		Normal operation.	
	Short		Normal operation.	
D201	Open		No Hazard.	Decreased
	Short		Normal operation.	
D202	Open		No Hazard.	Decreased
	Short		Normal operation.	
D203	Open		Normal operation.	
	Short		No Hazard.	0V
D204	Open		Normal operation.	
	Short		Normal operation.	
IC101	Open	1	Normal operation.	
		2	Normal operation.	
		3	Normal operation.	
		4	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage
IC101	Open	5	Normal operation.	
		6	Normal operation.	
		7	F101 opened, No hazard.	0V
		8	No Hazard.	0V
		9	No Hazard.	0V
		10	F101 opened, No hazard.	0V
		11	Normal operation.	
		12	No Hazard.	0V
		13	F101 opened, No hazard.	0V
		14	Normal operation.	
		15	F101 opened, No hazard.	0V
		16	F101 opened, No hazard.	0V
	Short	1-2	No Hazard.	0V
		2-3	Normal operation.	
		3-4	No Hazard.	0V
		4-5	No Hazard.	0V
		5-6	No Hazard.	0V
		6-7	Normal operation.	
		7-8	No Hazard.	0V
		9-10	Normal operation.	
		10-11	No Hazard.	0V
		11-12	Normal operation.	
		12-13	No Hazard.	0V
		13-14	No Hazard.	0V

## F M E A

Component	Mode		Comment	Output Voltage
IC101	Short	14-15	F101 opened, No hazard.	0V
		15-16	F101 opened, No hazard.	0V
IC201	Open	1	No Hazard.	0V
		2	No Hazard.	0V
		3	F101 opened, 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	No Hazard.	0V
		12	See 18 Page.	
		13	See 18 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	F101 opened, No hazard.	0V
		2-3	No Hazard.	0V

## F M E A

Component	Mode		Comment	Output Voltage
IC201	Short	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	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
IC501	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
J201	Open		No Hazard.	0V
J501	Open		Normal operation.	



## F M E A

Component	Mode		Comment	Output Voltage
J502	Open		No Hazard.	0V
L101	Open		No Hazard.	0V
	Short		Normal operation.	
L102	Open		No Hazard.	0V
	Short		Normal operation.	
L103	Open	1, 2or7, 8	No Hazard.	0V
		4or5	See 18 Page.	
	Short	1, 2-7, 8	F101 opened, No hazard.	0V
		4-5	See 18 Page.	
L104	Open		F101 opened, No hazard.	0V
L507	Open		See 18 Page.	
	Short		See 18 Page.	
L508	Open		Normal operation.	
	Short		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.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	0V
R101	Open		Normal operation.	
R102	Open		Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage
R103	Open	Normal operation.	
R104	Open	Normal operation.	
R105	Open	Normal operation.	
R106	Open	No Hazard.	0V
R107	Open	No Hazard.	0V
R108	Open	No Hazard.	0V
R109	Open	See 18 Page.	
R110	Open	Normal operation.	
R111	Open	No Hazard.	0V
R112	Open	Normal operation.	
R113	Open	Normal operation.	
R114	Open	Normal operation.	
R115	Open	Normal operation.	
R116	Open	No Hazard.	0V
R117	Open	No Hazard.	0V
R118	Open	No Hazard.	0V
R119	Open	Normal operation.	
R120	Open	Normal operation.	
R121	Open	Normal operation.	
R122	Open	Normal operation.	
R123	Open	Normal operation.	
R124	Open	See 18 Page.	
R125	Open	See 18 Page.	
R126	Open	No Hazard.	0V

## F M E A

Component	Mode	Comment	Output Voltage
R127	Open	No Hazard.	0V
R128	Open	Normal operation.	
R129	Open	Normal operation.	
R130	Open	Normal operation.	
R131	Open	Normal operation.	
R132	Open	F101 opened, No hazard.	0V
R133	Open	Normal operation.	
R134	Open	Normal operation.	
R135	Open	Normal operation.	
R136	Open	Normal operation.	
R137	Open	Normal operation.	
R138	Open	No Hazard.	0V
R139	Open	Normal operation.	
R140	Open	Normal operation.	
R141	Open	Normal operation.	
R142	Open	Normal operation.	
R143	Open	No Hazard.	0V
R144	Open	Normal operation.	
R145	Open	Normal operation.	
R146	Open	Normal operation.	
R147	Open	Normal operation.	
R201	Open	Normal operation.	
R202	Open	Normal operation.	
R203	Open	Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage
R204	Open	Normal operation.	
R205	Open	Normal operation.	
R206	Open	No Hazard.	0V
R207	Open	No Hazard.	0V
R208	Open	See 18 Page.	
R209	Open	No Hazard.	0V
R210	Open	No Hazard.	0V
R211	Open	Normal operation.	
R212	Open	Normal operation.	
R213	Open	F101 opened, No hazard.	0V
R214	Open	Normal operation.	
R215	Open	No Hazard.	Decreased
R216	Open	Normal operation.	
R217	Open	No Hazard.	Decreased
R219	Open	Normal operation.	
R501	Open	Normal operation.	
R502	Open	Normal operation.	
R503	Open	No Hazard.	0V
R504	Open	Normal operation.	
R505	Open	No Hazard.	Decreased
R506	Open	No Hazard.	0V
R507	Open	No Hazard.	Decreased
R508	Open	No Hazard.	Decreased
R512	Open	Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage
R513	Open	Normal operation.	
R516	Open	Normal operation.	
R517	Open	Normal operation.	
R518	Open	Normal operation.	
R519	Open	Normal operation.	
R521	Open	Normal operation.	
R522	Open	Normal operation.	
R523	Open	Normal operation.	
R524	Open	Normal operation.	
R525	Open	Normal operation.	
R526	Open	Normal operation.	
R527	Open	Normal operation.	
R528	Open	Normal operation.	
R529	Open	Normal operation.	
R530	Open	Normal operation.	
R531	Open	Normal operation.	
R532	Open	Normal operation.	
R533 Only-15, -24	Open	Normal operation.	
R534 Only-15, -24	Open	Normal operation.	
R535 Only-15, -24	Open	Normal operation.	
SK101	Open	Normal operation.	
	Short	F101 opened, No hazard.	0V
SS101	Open	No Hazard.	0V
	Short	F101 opened, No hazard.	0V

## F M E A

Component	Mode		Comment	Output Voltage
SS102	Open	Cathode	F101 opened, No hazard.	0V
		Alternative anodes	Normal operation.	
	Short		F101 opened, No hazard.	0V
SS501 Except-24	Open	Forward side	See 18 Page.	
		Flyback side	See 18 Page.	
	Short	Forward side	See 18 Page.	
		Flyback side	See 18 Page.	
SS502	Open	Forward side	See 19 Page.	
		Flyback side	See 19 Page.	
	Short	Forward side	See 19 Page.	
		Flyback side	See 19 Page.	
SS503 Only-5, 12	Open	Flyback side	See 19 Page.	
	Short	Flyback side	See 19 Page.	
T201	Open	2or4	No Hazard.	0V
		7, 8, 9or10, 11, 12	F101 opened, No hazard.	0V
		5or6	No Hazard.	Decreased
	Short	2-4	F101 opened, No hazard.	0V
		7-10	F101 opened, No hazard.	0V
		7, 8, 9-10, 11, 12	See 19 Page.	
TH101	Open		No Hazard.	0V
	Short		Normal operation.	
TR101	Open	C	No Hazard.	0V
		E	No Hazard.	0V
		B	No Hazard.	0V

## F M E A

Component	Mode		Comment	Output Voltage
TR101	Short	C-E	Normal operation.	
		E-B	No Hazard.	0V
		B-C	Normal operation.	
TR102	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.	
TR103	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	See 19 Page.	
		S-G	Normal operation.	
		G-D	See 19 Page.	
TR104	Open	C	See 19 Page.	
		E	See 19 Page.	
		B	See 19 Page.	
	Short	C-E	Normal operation.	
		E-B	See 19 Page.	
		B-C	Normal operation.	
TR105	Open	D	See 19 Page.	
		S	See 19 Page.	
		G	See 19 Page.	

## F M E A

Component	Mode		Comment	Output Voltage
TR105	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR201	Open	D	See 19 Page.	
		S	See 19 Page.	
		G	See 19 Page.	
	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 20 Page.	
ZD101	Open		No Hazard.	0V
	Short		Normal operation.	
ZD102	Open		Normal operation.	
	Short		Normal operation.	
ZD103	Open		See 20 Page.	
	Short		Normal operation.	
ZD104	Open		Normal operation.	
	Short		No Hazard.	0V
ZD501	Open		Normal operation.	
	Short		No Hazard.	0V
ZD502	Open		Normal operation.	
	Short		No Hazard.	0V



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage
C111	Open		No Hazard.	0V
C112	Open		Normal operation.	
	Short		Normal operation.	
C119	Open		F101 opened, No hazard.	0V
C201	Open		No Hazard.	0V
C203	Open		No Hazard.	0V
D106	Open		Normal operation.	
	Short		Normal operation.	
D107	Open		Normal operation.	
	Short		Normal operation.	
IC201	Open	12	No Hazard.	0V
		13	No Hazard.	Decreased
L103	Open	4or5	Normal operation.	
	Short	4-5	Normal operation.	
L507	Open		F101 opened, No hazard.	0V
	Short		No Hazard.	Decreased
R109	Open		No Hazard.	0V
R124	Open		Normal operation.	
R125	Open		Normal operation.	
R208	Open		No Hazard.	Decreased
SS501 Except-24	Open	Forward side	Normal operation.	
		Flyback side	Normal operation.	
	Short	Forward side	No Hazard.	Decreased
		Flyback side	No Hazard.	Decreased

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage
SS502	Open	Forward side	-5, -12, -15: No Hazard. -24: F101 opened, No hazard.	0V
		Flyback side	-5, -12, -15: No Hazard. -24: F101 opened, No hazard.	0V
	Short	Forward side	No Hazard.	Decreased
		Flyback side	No Hazard.	Decreased
SS503 Only -5, 12	Open	Flyback side	Normal operation.	
	Short	Flyback side	No Hazard.	Decreased
T201	Short	7, 8, 9- 10, 11, 12	No Hazard.	Decreased
TR103	Short	D-S	No Hazard.	0V
		G-D	No Hazard.	0V
TR104	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	E-B	Normal operation.	
TR105	Open	D	No Hazard.	0V
		S	No Hazard.	0V
		G	F101 opened, No hazard.	0V
	Short	D-S	F101 opened, No hazard.	0V
		S-G	No Hazard.	0V
		G-D	F101 opened, No hazard.	0V
TR201	Open	D	No Hazard.	0V
		S	No Hazard.	0V
		G	F101 opened, No hazard.	0V
	Short	D-S	F101 opened, No hazard.	0V
		S-G	No Hazard.	0V

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage
TR201	Short	G-D	F101 opened, No hazard.	0V
ZD103	Open		Normal operation.	