

ABNORMAL TEST RESULT

OF MODEL LEP150F

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 : 2/22 ~ 19/22)

(Abnormal Test Result: 20/22 ~ 22/22)

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)
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 20 Page.	
	Short	See 20 Page.	
C112	Open	See 20 Page.	
	Short	See 20 Page.	
C113	Open	Normal operation.	
	Short	R122 opened, No hazard.	0V
C114	Open	Normal operation.	
	Short	No hazard.	0V
C115	Open	F101 opened, No hazard.	0V
	Short	No hazard.	0V

F M E A

Component	Mode	Comment	Output Voltage (V)
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 20 Page.	
	Short	F101 opened, No hazard.	0V
C120	Open	Normal operation.	
	Short	Normal operation.	
C170	Open	Normal operation.	
	Short	No hazard.	0V
C171	Open	Normal operation.	
	Short	No hazard.	0V
C201	Open	See 20 Page.	
	Short	No hazard.	0V
C203	Open	See 20 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.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C207	Open	Normal operation.	
	Short	Normal operation.	
C208	Open	Normal operation.	
	Short	Normal operation.	
C209	Open	Normal operation.	
	Short	Normal operation.	
C210	Open	Normal operation.	
	Short	Normal operation.	
C212	Open	Normal operation.	
	Short	See 20 Page.	
C231	Open	Normal operation.	
	Short	No hazard.	0V
C232	Open	Normal operation.	
	Short	Normal operation.	
C233	Open	See 20 Page.	
	Short	Normal operation.	
C234	Open	Normal operation.	
	Short	Normal operation.	
C235	Open	Normal operation.	
	Short	Normal operation.	
C501	Open	Normal operation.	
	Short	Normal operation.	
C502	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C503	Open	only -24	Normal operation.	
	Short	only -24	Normal operation.	
C504	Open	only -24	Normal operation.	
	Short	only -24	Normal operation.	
C505	Open		Normal operation.	
	Short		Normal operation.	
C506	Open		Normal operation.	
	Short		Normal operation.	
C507	Open		Normal operation.	
	Short		No hazard.	0V
C508	Open		Normal operation.	
	Short		No hazard.	0V
C510	Open	Except -48	No hazard.	Decreased
	Short	Except -48	No hazard.	Decreased
C518	Open	only -48	No hazard.	Decreased
	Short	only -48	No hazard.	Decreased
D102	Open		See 20 Page.	
	Short		See 20 Page.	
D103	Open		No hazard.	0V
	Short		Normal operation.	
D104	Open		Normal operation.	
	Short		Normal operation.	
D105	Open		Normal operation.	
	Short		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
D106	Open	See 20 Page.	
	Short	See 20 Page.	
D107	Open	See 20 Page.	
	Short	See 20 Page.	
D108	Open	Normal operation.	
	Short	R122 opened, No hazard.	0V
D109	Open	Normal operation.	
	Short	Normal operation.	
D110	Open	Normal operation.	
	Short	Normal operation.	
D201	Open	No hazard.	0V
	Short	Normal operation.	
D202	Open	No hazard.	0V
	Short	Normal operation.	
D203	Open	Normal operation.	
	Short	No hazard.	0V
D204	Open	Normal operation.	
	Short	Normal operation.	
D207	Open	Normal operation.	
	Short	See 20 Page.	
D231	Open	No hazard.	0V
	Short	Normal operation.	
D232	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
D233	Open		Normal operation.	
	Short		Normal operation.	
IC101	Open	1	Normal operation.	
		2	Normal operation.	
		3	Normal operation.	
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
		7	No hazard.	0V
		8	F101 opened, 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.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC101	Short	7-8	R122 opened, 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
		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 20 Page.	
		13	See 20 Page.	
		14	Normal operation.	
		15	Normal operation.	
		16	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	17	No hazard.	0V
		18	Normal operation.	
		19	Normal operation.	
		20	No hazard.	0V
	Short	1-2	See 20 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	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
IC231	Open	K	Normal operation.	
		A	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC231	Open	R	Normal operation.	
	Short	A-K	No hazard.	0V
		K-R	No hazard.	0V
		R-A	Normal operation.	
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
J502	Open	only -24	No hazard.	0V
L101	Open		No hazard.	0V
	Short		Normal operation.	
L102	Open		No hazard.	0V
	Short		Normal operation.	
L103	Open	1, 2or6, 7	No hazard.	0V
		4or5	See 20 Page.	
	Short	1, 2-6, 7	F101 opened, No hazard.	0V
		4-5	See 20 Page.	
L104	Open		F101 opened, No hazard.	0V
L507	Open		See 20 Page.	
	Short		See 20 Page.	
L508	Open		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
L508	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.	
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		No hazard.	0V
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.	

F M E A

Component	Mode	Comment	Output Voltage (V)
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 20 Page.	
R125	Open	See 21 Page.	
R126	Open	No hazard.	0V
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.	

F M E A

Component	Mode	Comment	Output Voltage (V)
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.	
R170	Open	Normal operation.	
R171	Open	Normal operation.	
R172	Open	Normal operation.	
R201	Open	Normal operation.	
R202	Open	Normal operation.	
R203	Open	Normal operation.	
R204	Open	Normal operation.	
R205	Open	Normal operation.	
R206	Open	No hazard.	0V
R207	Open	No hazard.	0V
R208	Open	No hazard.	Decreased
R209	Open	No hazard.	0V
R210	Open	No hazard.	0V
R211	Open	Normal operation.	
R212	Open	Normal operation.	
R213	Open	See 21 Page.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R214	Open	Normal operation.	
R215	Open	No hazard.	Decreased
R216	Open	Normal operation.	
R217	Open	No hazard.	Decreased
R219	Open	Normal operation.	
R221	Open	Normal operation.	
R224	Open	Normal operation.	
R225	Open	Normal operation.	
R226	Open	Normal operation.	
R227	Open	Normal operation.	
R231	Open	Normal operation.	
R232	Open	Normal operation.	
R233	Open	Normal operation.	
R234	Open	Normal operation.	
R235	Open	No hazard.	0V
R236	Open	No hazard.	0V
R237	Open	Normal operation.	
R238	Open	Normal operation.	
R239	Open	Normal operation.	
R240	Open	See 21 Page.	
R241	Open	See 21 Page.	
R501	Open	Normal operation.	
R502	Open	Normal operation.	
R503	Open	No hazard.	0V

F M E A

Component	Mode		Comment	Output Voltage (V)
R504	Open		Normal operation.	
R505	Open		No hazard.	Decreased
R506	Open		No hazard.	0V
R507	Open		No hazard.	Decreased
R508	Open	only -48	No hazard.	0V
R509	Open		No hazard.	0V
R510	Open		Normal operation.	
R511	Open		Normal operation.	
R512	Open		Normal operation.	
R513	Open		Normal operation.	
R514	Open		Normal operation.	
R515	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.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R533	Open		Normal operation.	
R534	Open		Normal operation.	
R535	Open		Normal operation.	
R536	Open	only -36	Normal operation.	
R537	Open	only -36	Normal operation.	
R538	Open	only -36	Normal operation.	
R539	Open	only -36	Normal operation.	
SK101	Open		Normal operation.	
	Short		F101 opened, No hazard.	0V
SS101	Open		No hazard.	0V
	Short		F101 opened, No hazard.	0V
SS501	Open	Forward side	See 21 Page.	
		Flyback side	See 21 Page.	
	Short	Forward side	See 21 Page.	
		Flyback side	See 21 Page.	
T201	Open	4or6	No hazard.	0V
		2or3	No hazard.	0V
		8, 9or10, 11	See 21 Page.	
	Short	4-6	F101 opened, No hazard.	0V
		2-3	No hazard.	0V
		8, 9-10, 11	See 21 Page.	
TH101	Open		No hazard.	0V
	Short		Normal operation.	
TR101	Open	C	No hazard.	0V

F M E A

Component	Mode		Comment	Output Voltage (V)
TR101	Open	E	No hazard.	0V
		B	No hazard.	0V
	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 21 Page.	
		S-G	Normal operation.	
		G-D	See 21 Page.	
TR104	Open	C	See 21 Page.	
		E	See 21 Page.	
		B	See 21 Page.	
	Short	C-E	Normal operation.	
		E-B	See 21 Page.	
		B-C	Normal operation.	
TR105	Open	D	See 21 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR105	Open	S	See 21 Page.	
		G	See 21 Page.	
	Short	D-S	See 21 Page.	
		S-G	See 21 Page.	
		G-D	See 21 Page.	
TR201	Open	D	See 21 Page.	
		S	See 21 Page.	
		G	See 22 Page.	
	Short	D-S	See 22 Page.	
		S-G	See 22 Page.	
		G-D	See 22 Page.	
TR231	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No hazard.	0V
		E-B	Normal operation.	
		B-C	No hazard.	0V
TR232	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.	
VR201	Open	brush	No hazard.	Decreased

F M E A

Component	Mode		Comment	Output Voltage (V)
VR201	Open		No hazard.	Decreased
VR501	Open	brush	No hazard.	Decreased
			No hazard.	Decreased
ZD101	Open		No hazard.	0V
	Short		Normal operation.	
ZD102	Open		Normal operation.	
	Short		Normal operation.	
ZD103	Open		See 22 Page.	
	Short		Normal operation.	
ZD104	Open		Normal operation.	
	Short		R122 opened, No hazard.	0V
ZD231	Open		Normal operation.	
	Short		Normal operation.	
ZD501	Open		Normal operation.	
	Short		No hazard.	0V
ZD502	Open		Normal operation.	
	Short		No hazard.	0V
ZD503	Open	Except -24	No hazard.	0V
	Short	Except -24	Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C111	Open			
	Short			
C112	Open		Normal operation.	
	Short		Normal operation.	
C119	Open		F101 opened, No hazard.	0V
C201	Open		Normal operation.	
C203	Open		No hazard.	0V
C212	Short		No hazard.	0V
C233	Open		Normal operation.	
D102	Open		F101 opened, No hazard.	0V
	Short		F101 opened, No hazard.	0V
D106	Open		Normal operation.	
	Short		Normal operation.	
D107	Open		Normal operation.	
	Short		Normal operation.	
D207	Short		No hazard.	0V
IC201	Open	12	No hazard.	0V
		13	No hazard.	Decreased
	Short	1-2	Normal operation.	
L103	Open	4or5	Normal operation.	
	Short	4-5	Normal operation.	
L507	Open		F101 opened, No hazard.	0V
	Short		No hazard.	Decreased
R124	Open		Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
R125	Open		Normal operation.	
R213	Open		F101 opened, No hazard.	0V
R240	Open		No hazard.	0V
R241	Open		No hazard.	0V
SS501	Open	Forward side	F101 opened, No hazard.	0V
		Flyback side	F101 opened, No hazard.	0V
	Short	Forward side	No hazard.	0V
		Flyback side	No hazard.	0V
T201	Open	8, 9or10, 11	F101 opened, No hazard.	0V
	Short	8, 9-10, 11	No hazard.	0V
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	R122 opened, No hazard.	0V
		G-D	F101 opened, No hazard.	0V
TR201	Open	D	No hazard.	0V
		S	No hazard.	0V

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR201	Open	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
ZD103	Open		Normal operation.	