

ABNORMAL TEST RESULT

OF MODEL SUW/SUCW60512, 15

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 : 2/13 ~ 11/13)

(Abnormal Test Result: 12/13 ~ 13/13)

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
C10	Open	Normal operation.	
	Short	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
C11	Open	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
	Short	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
C12	Open	Normal operation.	
	Short	Normal operation.	
C21	Open	Normal operation.	
	Short	Normal operation.	
C22	Open	No Hazard.	AVR1:Decreased AVR2:Decreased
	Short	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
C51	Open	Normal operation.	
	Short	Normal operation.	
C52	Open	Normal operation.	
	Short	Normal operation.	
C53	Open	Normal operation.	
	Short	No Hazard.	AVR1:Decreased AVR2:Decreased
C61	Open	Normal operation.	
	Short	Normal operation.	
C62	Open	Normal operation.	
	Short	Normal operation.	
C70	Open	Normal operation.	
	Short	No Hazard.	AVR1:Decreased AVR2:Decreased
C71	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V] AVR2:Decreased

F M E A

Component	Mode	Comment	Output Voltage
C72	Open	Normal operation.	
	Short	No Hazard.	AVR1:Decreased AVR2:0[V]
C73	Open	Normal operation.	
	Short	No Hazard.	AVR1:Decreased AVR2:Decreased
C74	Open	Normal operation.	
	Short	No Hazard.	AVR1:Decreased AVR2:Decreased
C75	Open	Normal operation.	
	Short	See 12 Page.	
C76	Open	Normal operation.	
	Short	Normal operation.	
D21	Open	Normal operation.	
	Short	Normal operation.	
D22	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V] AVR2:0[V]
D23	Open	Normal operation.	
	Short	Normal operation.	
D41	Open	Normal operation.	
	Short	Normal operation.	
D51	Open	Normal operation.	
	Short	Normal operation.	
D52	Open	Normal operation.	
	Short	Normal operation.	
D61	Open	Normal operation.	
	Short	Normal operation.	

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Component	Mode		Comment	Output Voltage
D71	Open		See 12 Page.	
	Short		F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
D72	Open		See 12 Page.	
	Short		F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
IC71	Open	K	See 12 Page.	
		A	See 12 Page.	
		R	See 12 Page.	
	Short	A-K	No Hazard.	AVR1:Decreased AVR2:Decreased
		K-R	No Hazard.	AVR1:Decreased AVR2:Decreased
		R-A	See 12 Page.	
L11	Open		No Hazard.	AVR1:0[V] AVR2:0[V]
	Short		Normal operation.	
L71	Open		See 12 Page.	
	Short		Normal operation.	
L72	Open		See 12 Page.	
	Short		Normal operation.	
PC11	Open	A, K	See 12 Page.	
		C, E	See 12 Page.	
	Short	A-K	See 12 Page.	
		C-E	No Hazard.	AVR1:Decreased AVR2:Decreased
T11	Open	1	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		2	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		3	See 12 Page.	
		4	See 12 Page.	

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Component	Mode		Comment	Output Voltage
T11	Open	5	See 12 Page.	
		6	See 12 Page.	
		7	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		8	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
	Short	1-2	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		2-3	Normal operation.	
		3-4	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		3-6	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		5-6	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		6-7	Normal operation.	
		7-8	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
TR11	Open	D	See 12 Page.	
		S	See 12 Page.	
		G	See 12 Page.	
	Short	D-S	See 12 Page.	
		S-G	See 12 Page.	
		G-D	See 12 Page.	
TR12	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR21	Open	C	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]

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Component	Mode		Comment	Output Voltage
TR21	Open	E	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		B	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
	Short	C-E	No Hazard.	AVR1:0[V] AVR2:0[V]
		E-B	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		B-C	No Hazard.	AVR1:0[V] AVR2:0[V]
TR41	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0[V] AVR2:0[V]
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0[V] AVR2:0[V]
TR42	Open	C	No Hazard.	AVR1:0[V] AVR2:0[V]
		E	No Hazard.	AVR1:0[V] AVR2:0[V]
		B	No Hazard.	AVR1:0[V] AVR2:0[V]
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:0[V] AVR2:0[V]
		B-C	No Hazard.	AVR1:0[V] AVR2:0[V]
TR43	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0[V] AVR2:0[V]
		E-B	Normal operation.	
		B-C	Normal operation.	
TR51	Open	C	Normal operation.	

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Component	Mode		Comment	Output Voltage
TR51	Open	E	Normal operation.	
		B	Normal operation.	
	Short	C-E	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		E-B	Normal operation.	
		B-C	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
TR52	Open	C(npn)	Normal operation.	
		E(npn)	Normal operation.	
		B(npn)	Normal operation.	
	Short	C-E(npn)	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
		E-B(npn)	Normal operation.	
		B-C(npn)	F11 opened, No Hazard.	AVR1:0[V] AVR2:0[V]
	Open	C(pnp)	Normal operation.	
		E(pnp)	Normal operation.	
		B(pnp)	Normal operation.	
	Short	C-E(pnp)	Normal operation.	
		E-B(pnp)	Normal operation.	
		B-C(pnp)	Normal operation.	
TR53	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR61	Open	C	Normal operation.	

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Component	Mode		Comment	Output Voltage
TR61	Open	E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
ZD12	Open		Normal operation.	
	Short		Normal operation.	
ZD21	Open		No Hazard.	AVR1:Decreased AVR2:Decreased
	Short		No Hazard.	AVR1:Decreased AVR2:Decreased
ZD41	Open		No Hazard.	AVR1:0[V] AVR2:0[V]
	Short		Normal operation.	
ZD72	Open		Normal operation.	
	Short		No Hazard.	AVR1:Decreased AVR2:Decreased
ZD73	Open		See 12 Page.	
	Short		Normal operation.	
ZD74	Open		See 12 Page.	
	Short		Normal operation.	
R10	Open		Normal operation.	
R12	Open		Normal operation.	
R13	Open		Normal operation.	
R14	Open		Normal operation.	
R15	Open		Normal operation.	
R16	Open		Fll opened, No Hazard.	AVR1:0[V] AVR2:0[V]
R17	Open		Normal operation.	

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Component	Mode	Comment	Output Voltage
R20	Open	Normal operation.	
R21	Open	Normal operation.	
R22	Open	No Hazard.	AVR1:Decreased AVR2:Decreased
R23	Open	Normal operation.	
R24	Open	See 13 Page.	
R25	Open	Normal operation.	
R26	Open	Normal operation.	
R27	Open	Normal operation.	
R28	Open	Normal operation.	
R29	Open	Normal operation.	
R30	Open	Normal operation.	
R31	Open	Normal operation.	
R32	Open	Normal operation.	
R33	Open	Normal operation.	
R41	Open	Normal operation.	
R42	Open	Normal operation.	
R43	Open	Normal operation.	
R44	Open	Normal operation.	
R45	Open	Normal operation.	
R46	Open	Normal operation.	
R47	Open	Normal operation.	
R51	Open	Normal operation.	
R52	Open	Normal operation.	
R53	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage
R54	Open	Normal operation.	
R55	Open	Normal operation.	
R56	Open	Normal operation.	
R57	Open	Normal operation.	
R60	Open	Normal operation.	
R61	Open	Normal operation.	
R62	Open	Normal operation.	
R63	Open	Normal operation.	
R64	Open	Normal operation.	
R70	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.	
R81	Open	See 13 Page.	
R82	Open	See 13 Page.	
R83	Open	No Hazard.	AVR1:Decreased AVR2:Decreased
R84	Open	Normal operation.	
R85	Open	Normal operation.	
R91	Open	Normal operation.	
R92	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage
R93	Open	Normal operation.	
R94	Open	Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage
C75	Short		No Hazard.	AVR1: Increased AVR2: Increased
D71	Open		No Hazard.	AVR1: 0[V] AVR2: Increased
D72	Open		No Hazard.	AVR1: Increased AVR2: 0[V]
IC71	Open	K	No Hazard.	AVR1: Increased AVR2: Increased
		A	No Hazard.	AVR1: Increased AVR2: Increased
		R	No Hazard.	AVR1: Increased AVR2: Increased
	Short	R-A	No Hazard.	AVR1: Increased AVR2: Increased
L71	Open		No Hazard.	AVR1: 0[V] AVR2: Increased
L72	Open		No Hazard.	AVR1: Increased AVR2: 0[V]
PC11	Open	A, K	No Hazard.	AVR1: Increased AVR2: Increased
		C, E	No Hazard.	AVR1: Increased AVR2: Increased
	Short	A-K	No Hazard.	AVR1: Increased AVR2: Increased
T11	Open	3	No Hazard.	AVR1: 0[V] AVR2: Increased
		4	No Hazard.	AVR1: 0[V] AVR2: Increased
		5	No Hazard.	AVR1: Increased AVR2: 0[V]
		6	No Hazard.	AVR1: Increased AVR2: 0[V]
TR11	Open	D	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		S	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		G	F11 opend, No Hazard.	AVR1: 0[V] AVR2: 0[V]
	Short	D-S	F11 opend, No Hazard.	AVR1: 0[V] AVR2: 0[V]
		S-G	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		G-D	F11 opend, No Hazard.	AVR1: 0[V] AVR2: 0[V]
ZD73	Open		No Hazard.	AVR1: Increased AVR2: Increased
ZD74	Open		No Hazard.	AVR1: Increased AVR2: Increased



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage
R24	Open	No Hazard.	AVR1: Increased AVR2: Increased
R81	Open	No Hazard.	AVR1: Increased AVR2: Increased
R82	Open	No Hazard.	AVR1: Increased AVR2: Increased