

## ABNORMAL TEST RESULT

OF MODEL SUS/SUCS10123R3  
SUS/SUCS101205

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 : 2/17 ~ 14/17)

( Abnormal Test Result: 15/17 ~ 17/17)

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 |
|-----------|-------|------------------------|----------------|
| C11       | Open  | Normal operation.      |                |
|           | Short | F11 opened, No Hazard. | Decreased.     |
| C21       | Open  | Normal operation.      |                |
|           | Short | No Hazard.             | 0[V]           |
| C22       | Open  | F11 opened, No Hazard. | 0[V]           |
|           | Short | No Hazard.             | 0[V]           |
| C23       | Open  | Normal operation.      |                |
|           | Short | No Hazard.             | 0[V]           |
| C31       | Open  | Normal operation.      |                |
|           | Short | F11 opened, No Hazard. | 0[V]           |
| C32       | Open  | Normal operation.      |                |
|           | Short | No Hazard.             | 0[V]           |
| C34       | Open  | Normal operation.      |                |
|           | Short | Normal operation.      |                |
| C41       | Open  | Normal operation.      |                |
|           | Short | Normal operation.      |                |
| C42       | Open  | No Hazard.             |                |
|           | Short | No Hazard.             |                |
| C43       | Open  | Normal operation.      |                |
|           | Short | No Hazard.             |                |
| C51       | Open  | Normal operation.      |                |
|           | Short | No Hazard.             | Decreased.     |
| C52       | Open  | Normal operation.      |                |
|           | Short | No Hazard.             | Decreased.     |

F M E A

| Component | Mode  |         | Comment           | Output Voltage |
|-----------|-------|---------|-------------------|----------------|
| C53       | Open  |         | Normal operation. |                |
|           | Short |         | No Hazard.        | Decreased.     |
| C54       | Open  |         | No Hazard.        |                |
|           | Short |         | No Hazard.        | Decreased.     |
| C55       | Open  |         | No Hazard.        |                |
|           | Short |         | No Hazard.        |                |
| C56       | Open  |         | No Hazard.        |                |
|           | Short |         | No Hazard.        | Decreased.     |
| C57       | Open  |         | No Hazard.        |                |
|           | Short |         | No Hazard.        | Decreased.     |
| C58       | Open  |         | Normal operation. |                |
|           | Short |         | No Hazard.        | 0[V]           |
| C60       | Open  |         | Normal operation. |                |
|           | Short |         | Normal operation. |                |
| C71       | Open  |         | Normal operation. |                |
|           | Short |         | No Hazard.        | Increased.     |
| C72       | Open  | Only 05 | Normal operation. |                |
|           | Short | Only 05 | No Hazard.        | Decreased.     |
| C73       | Open  |         | Normal operation. |                |
|           | Short |         | No Hazard.        | Decreased.     |
| C81       | Open  |         | Normal operation. |                |
|           | Short |         | Normal operation. |                |
| C82       | Open  |         | Normal operation. |                |
|           | Short |         | No Hazard.        | 0[V]           |

F M E A

| Component | Mode  | Comment                | Output Voltage |
|-----------|-------|------------------------|----------------|
| D12       | Open  | Normal operation.      |                |
|           | Short | Normal operation.      |                |
| D31       | Open  | Normal operation.      |                |
|           | Short | F11 opened, No Hazard. | 0[V]           |
| D32       | Open  | F11 opened, No Hazard. | 0[V]           |
|           | Short | F11 opened, No Hazard. | 0[V]           |
| D41       | Open  | No Hazard.             | Decreased.     |
|           | Short | No Hazard.             | Decreased.     |
| D52       | Open  | Normal operation.      |                |
|           | Short | No Hazard.             | Decreased.     |
| D53       | Open  | No Hazard.             |                |
|           | Short | No Hazard.             |                |
| D54       | Open  | No Hazard.             |                |
|           | Short | No Hazard.             |                |
| D55       | Open  | Normal operation.      |                |
|           | Short | Normal operation.      |                |
| D56       | Open  | Normal operation.      |                |
|           | Short | Normal operation.      |                |
| D57       | Open  | Normal operation.      |                |
|           | Short | Normal operation.      |                |
| D59       | Open  | No Hazard.             |                |
|           | Short | No Hazard.             |                |
| F11       | Open  | No Hazard.             | 0[V]           |
|           | Short | Normal operation.      |                |

## F M E A

| Component | Mode  |     | Comment                | Output Voltage |
|-----------|-------|-----|------------------------|----------------|
| IC11      | Open  | 1   | No Hazard.             | 0[V]           |
|           |       | 2   | No Hazard.             | 0[V]           |
|           |       | 3   | F11 opened, No Hazard. | 0[V]           |
|           |       | 4   | No Hazard.             | 0[V]           |
|           |       | 5   | No Hazard.             | 0[V]           |
|           |       | 6   | No Hazard.             | 0[V]           |
|           |       | 7   | No Hazard.             | 0[V]           |
|           |       | 8   | No Hazard.             | 0[V]           |
|           | Short | 1-2 | No Hazard.             | 0[V]           |
|           |       | 2-3 | F11 opened, No Hazard. | 0[V]           |
|           |       | 3-4 | No Hazard.             | 0[V]           |
|           |       | 5-6 | No Hazard.             | 0[V]           |
|           |       | 6-7 | F11 opened, No Hazard. | 0[V]           |
|           |       | 7-8 | No Hazard.             | Decreased.     |
| IC51      | Open  | K   | No Hazard.             | Increased.     |
|           |       | A   | No Hazard.             | Increased.     |
|           |       | R   | No Hazard.             | Increased.     |
|           | Short | A-K | No Hazard.             | Decreased.     |
|           |       | K-R | No Hazard.             | Decreased.     |
|           |       | R-A | No Hazard.             | Increased.     |
| L11       | Open  |     | No Hazard.             | 0[V]           |
|           | Short |     | Normal operation.      |                |
| L51       | Open  |     | No Hazard.             | 0[V]           |
|           | Short |     | Normal operation.      |                |

## F M E A

| Component | Mode  |      | Comment                | Output Voltage |
|-----------|-------|------|------------------------|----------------|
| PC11      | Open  | A, K | No Hazard.             | Increased.     |
|           |       | C, E | No Hazard.             | Increased.     |
|           | Short | A-K  | No Hazard.             | Increased.     |
|           |       | C-E  | Normal operation.      |                |
| T11       | Open  | 1    | Normal operation.      |                |
|           |       | 2    | Normal operation.      |                |
|           |       | 3    | Normal operation.      |                |
|           |       | 4    | No Hazard.             | 0[V]           |
|           |       | 5    | No Hazard.             | 0[V]           |
|           |       | 6    | No Hazard.             | 0[V]           |
|           |       | 7    | No Hazard.             | 0[V]           |
|           |       | 8    | Normal operation.      |                |
|           |       | 9    | No Hazard.             |                |
|           |       | 10   | No Hazard.             |                |
|           | Short | 1-2  | No Hazard.             | 0[V]           |
|           |       | 2-3  | F11 opened, No Hazard. | 0[V]           |
|           |       | 3-4  | Normal operation.      |                |
|           |       | 4-5  | F11 opened, No Hazard. | 0[V]           |
|           |       | 5-6  | No Hazard.             | 0[V]           |
|           |       | 6-7  | No Hazard.             | 0[V]           |
|           |       | 7-8  | Normal operation.      |                |
|           |       | 8-9  | No Hazard.             | 0[V]           |
|           |       | 9-10 | No Hazard.             | 0[V]           |
| T12       | Open  | 1    | No Hazard.             | 0[V]           |

## F M E A

| Component | Mode  |     | Comment                | Output Voltage |
|-----------|-------|-----|------------------------|----------------|
| T12       | Open  | 2   | No Hazard.             | 0[V]           |
|           |       | 3   | No Hazard.             | Increased.     |
|           |       | 4   | No Hazard.             | Increased.     |
|           | Short | 1-2 | No Hazard.             | Increased.     |
|           |       | 3-4 | No Hazard.             | Increased.     |
| TR11      | Open  | C   | Normal operation.      |                |
|           |       | E   | Normal operation.      |                |
|           |       | B   | Normal operation.      |                |
|           | Short | C-E | No Hazard.             |                |
|           |       | E-B | Normal operation.      |                |
|           |       | B-C | F11 opened, No Hazard. | 0[V]           |
| TR12      | Open  | C   | Normal operation.      |                |
|           |       | E   | Normal operation.      |                |
|           |       | B   | Normal operation.      |                |
|           | Short | C-E | No Hazard.             | 0[V]           |
|           |       | E-B | No Hazard.             | 0[V]           |
|           |       | B-C | Normal operation.      |                |
|           | Open  | C   | Normal operation.      |                |
|           |       | E   | Normal operation.      |                |
|           |       | B   | Normal operation.      |                |
|           | Short | C-E | No Hazard.             | Decreased.     |
|           |       | E-B | Normal operation.      |                |
|           |       | B-C | No Hazard.             | Decreased.     |
| TR21      | Open  | C   | Normal operation.      |                |

## F M E A

| Component | Mode  |     | Comment                | Output Voltage |
|-----------|-------|-----|------------------------|----------------|
| TR21      | Open  | E   | No Hazard.             | 0[V]           |
|           |       | B   | No Hazard.             | 0[V]           |
|           | Short | C-E | No Hazard.             | Increased.     |
|           |       | E-B | Normal operation.      |                |
|           |       | B-C | Normal operation.      |                |
| TR22      | Open  | C   | Normal operation.      |                |
|           |       | E   | Normal operation.      |                |
|           |       | B   | Normal operation.      |                |
|           | Short | C-E | No Hazard.             |                |
|           |       | E-B | Normal operation.      |                |
|           |       | B-C | No Hazard.             |                |
|           | Open  | C   | Normal operation.      |                |
|           |       | E   | Normal operation.      |                |
|           |       | B   | Normal operation.      |                |
|           | Short | C-E | No Hazard.             | Decreased.     |
|           |       | E-B | No Hazard.             | Decreased.     |
|           |       | B-C | No Hazard.             | Decreased.     |
| TR31      | Open  | D   | No Hazard.             | 0[V]           |
|           |       | S   | No Hazard.             | 0[V]           |
|           |       | G   | No Hazard.             | 0[V]           |
|           | Short | D-S | F11 opened, No Hazard. | 0[V]           |
|           |       | S-G | Normal operation.      |                |
|           |       | G-D | F11 opened, No Hazard. | 0[V]           |
| TR32      | Open  | C   | Normal operation.      |                |



## F M E A

| Component | Mode  |     | Comment           | Output Voltage |
|-----------|-------|-----|-------------------|----------------|
| TR32      | Open  | E   | No Hazard.        | 0[V]           |
|           |       | B   | No Hazard.        | 0[V]           |
|           | Short | C-E | Normal operation. |                |
|           |       | E-B | Normal operation. |                |
|           |       | B-C | Normal operation. |                |
| TR33      | Open  | C   | Normal operation. |                |
|           |       | E   | Normal operation. |                |
|           |       | B   | Normal operation. |                |
|           | Short | C-E | No Hazard.        | 0[V]           |
|           |       | E-B | Normal operation. |                |
|           |       | B-C | No Hazard.        | 0[V]           |
| TR34      | Open  | C   | Normal operation. |                |
|           |       | E   | Normal operation. |                |
|           |       | B   | Normal operation. |                |
|           | Short | C-E | No Hazard.        | 0[V]           |
|           |       | E-B | Normal operation. |                |
|           |       | B-C | No Hazard.        | 0[V]           |
| TR51      | Open  | D   | No Hazard.        |                |
|           |       | S   | No Hazard.        |                |
|           |       | G   | No Hazard.        |                |
|           | Short | D-S | No Hazard.        | 0[V]           |
|           |       | S-G | No Hazard.        | 0[V]           |
|           |       | G-D | No Hazard.        | Decreased.     |
| TR52      | Open  | C   | Normal operation. |                |

F M E A

| Component | Mode  |     | Comment           | Output Voltage |
|-----------|-------|-----|-------------------|----------------|
| TR52      | Open  | E   | No Hazard.        | Decreased.     |
|           |       | B   | No Hazard.        | Decreased.     |
|           | Short | C-E | No Hazard.        |                |
|           |       | E-B | Normal operation. |                |
|           |       | B-C | No Hazard.        |                |
| TR53      | Open  | C   | Normal operation. |                |
|           |       | E   | Normal operation. |                |
|           |       | B   | Normal operation. |                |
|           | Short | C-E | No Hazard.        |                |
|           |       | E-B | Normal operation. |                |
|           |       | B-C | Normal operation. |                |
|           | Open  | C   | Normal operation. |                |
|           |       | E   | Normal operation. |                |
|           |       | B   | Normal operation. |                |
|           | Short | C-E | See 15 Page.      | Increased.     |
|           |       | E-B | Normal operation. |                |
|           |       | B-C | Normal operation. |                |
| TR54      | Open  | C   | Normal operation. |                |
|           |       | E   | Normal operation. |                |
|           |       | B   | Normal operation. |                |
|           | Short | C-E | No Hazard.        |                |
|           |       | E-B | Normal operation. |                |
|           |       | B-C | No Hazard.        |                |
| TR55      | Open  | C   | No Hazard.        |                |

F M E A

| Component | Mode  |     | Comment                | Output Voltage |
|-----------|-------|-----|------------------------|----------------|
| TR55      | Open  | E   | No Hazard.             |                |
|           |       | B   | No Hazard.             |                |
|           | Short | C-E | Normal operation.      |                |
|           |       | E-B | No Hazard.             |                |
|           |       | B-C | No Hazard.             |                |
| ZD11      | Open  |     | Normal operation.      |                |
|           | Short |     | Normal operation.      |                |
| ZD12      | Open  |     | Normal operation.      |                |
|           | Short |     | F11 opened, No Hazard. | 0[V]           |
| ZD51      | Open  |     | Normal operation.      |                |
|           | Short |     | Normal operation.      |                |
| ZD52      | Open  |     | No Hazard.             |                |
|           | Short |     | No Hazard.             |                |
| 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  |     | No Hazard.             | Decreased.     |
| R21       | Open  |     | No Hazard.             | 0[V]           |
| R22       | Open  |     | No Hazard.             | 0[V]           |
| R23       | Open  |     | Normal operation.      |                |
| R24       | Open  |     | Normal operation.      |                |

F M E A

| Component | Mode | Comment           | Output Voltage |
|-----------|------|-------------------|----------------|
| R25       | Open | No Hazard.        | 0[V]           |
| R26       | Open | No Hazard.        | 0[V]           |
| R27       | Open | No Hazard.        | 0[V]           |
| R28       | Open | Normal operation. |                |
| R29       | Open | No Hazard.        | 0[V]           |
| R31       | Open | Normal operation. |                |
| R32       | Open | Normal operation. |                |
| R33       | Open | No Hazard.        | 0[V]           |
| R34       | Open | Normal operation. |                |
| R35       | Open | No Hazard.        | Decreased.     |
| R36       | Open | No Hazard.        | Decreased.     |
| R37       | Open | No Hazard.        | Decreased.     |
| R38       | Open | Normal operation. |                |
| R41       | Open | Normal operation. |                |
| R42       | Open | Normal operation. |                |
| R44       | Open | No Hazard.        | Decreased.     |
| R45       | Open | Normal operation. |                |
| R46       | Open | No Hazard.        | Decreased.     |
| R47       | Open | No Hazard.        | Decreased.     |
| R48       | Open | No Hazard.        | Decreased.     |
| R51       | Open | No Hazard.        |                |
| R52       | Open | No Hazard.        |                |
| R53       | Open | No Hazard.        | Decreased.     |
| R54       | Open | No Hazard.        | Decreased.     |

F M E A

| Component | Mode | Comment           | Output Voltage |
|-----------|------|-------------------|----------------|
| R55       | Open | Normal operation. |                |
| R56       | Open | No Hazard.        |                |
| R57       | Open | Normal operation. |                |
| R58       | Open | Normal operation. |                |
| R59       | Open | No Hazard.        |                |
| R60       | Open | No Hazard.        |                |
| R61       | Open | Normal operation. |                |
| R62       | Open | No Hazard.        |                |
| R63       | Open | No Hazard.        |                |
| R64       | Open | No Hazard.        |                |
| R65       | Open | Normal operation. |                |
| R66       | Open | Normal operation. |                |
| R67       | Open | Normal operation. |                |
| R68       | Open | Normal operation. |                |
| R69       | Open | Normal operation. |                |
| R70       | Open | Normal operation. |                |
| R71       | Open | No Hazard.        | Increased.     |
| R72       | Open | No Hazard.        | Increased.     |
| R73       | Open | Normal operation. |                |
| R74       | Open | Normal operation. |                |
| R76       | Open | No Hazard.        | Increased.     |
| R77       | Open | Normal operation. |                |
| R78       | Open | No Hazard.        |                |
| R79       | Open | No Hazard.        |                |



F M E A

| Component | Mode |         | Comment           | Output Voltage |
|-----------|------|---------|-------------------|----------------|
| R81       | Open | Only 05 | Normal operation. |                |
| R83       | Open |         | Normal operation. |                |
| R85       | Open |         | Normal operation. |                |
| R86       | Open | Only 05 | Normal operation. |                |

ABNORMAL TEST RESULT

| Component | Mode  |     | Comment                | Output Voltage |
|-----------|-------|-----|------------------------|----------------|
| C11       | Short |     | F11 opened, No Hazard. | 0[V]           |
| C22       | Open  |     | No Hazard.             | Decreased.     |
| C31       | Short |     | No Hazard.             |                |
| C51       | Short |     | No Hazard.             | Decreased.     |
| C52       | Short |     | No Hazard.             | Decreased.     |
| C53       | Short |     | No Hazard.             | Decreased.     |
| C54       | Open  |     | No Hazard.             |                |
| C55       | Open  |     | No Hazard.             |                |
|           | Short |     | No Hazard.             |                |
| C56       | Open  |     | No Hazard.             |                |
| C57       | Open  |     | No Hazard.             |                |
| D53       | Open  |     | No Hazard.             |                |
|           | Short |     | No Hazard.             |                |
| D54       | Open  |     | No Hazard.             |                |
|           | Short |     | No Hazard.             |                |
| D59       | Open  |     | No Hazard.             |                |
|           | Short |     | No Hazard.             |                |
| IC51      | Open  | R   | No Hazard.             | Increased.     |
| T11       | Open  | 9   | No Hazard.             |                |
|           |       | 10  | No Hazard.             |                |
| T12       | Open  | 3   | No Hazard.             | Increased.     |
|           |       | 4   | No Hazard.             | Increased.     |
|           | Short | 1-2 | No Hazard.             | Increased.     |
|           |       | 3-4 | No Hazard.             | Increased.     |

ABNORMAL TEST RESULT

| Component | Mode  |     | Comment                | Output Voltage |
|-----------|-------|-----|------------------------|----------------|
| TR31      | Short | D-S | F11 opened, No Hazard. | 0[V]           |
|           |       | G-D | F11 opened, No Hazard. | 0[V]           |
| TR51      | Open  | D   | No Hazard.             |                |
|           |       | S   | No Hazard.             |                |
|           |       | G   | No Hazard.             |                |
| TR52      | Short | C-E | No Hazard.             |                |
|           |       | B-C | No Hazard.             |                |
| TR53      | Short | C-E | No Hazard.             |                |
| TR54      | Short | C-E | No Hazard.             |                |
|           |       | B-C | No Hazard.             |                |
| TR55      | Open  | C   | No Hazard.             |                |
|           |       | E   | No Hazard.             |                |
|           |       | B   | No Hazard.             |                |
|           | Short | E-B | No Hazard.             |                |
|           |       | B-C | No Hazard.             |                |
| ZD52      | Open  |     | No Hazard.             |                |
|           | Short |     | No Hazard.             |                |
| R51       | Open  |     | No Hazard.             |                |
| R52       | Open  |     | No Hazard.             |                |
| R56       | Open  |     | No Hazard.             |                |
| R59       | Open  |     | No Hazard.             |                |
| R60       | Open  |     | No Hazard.             |                |
| R62       | Open  |     | No Hazard.             |                |
| R63       | Open  |     | No Hazard.             |                |



**COSEL**ABNORMAL TEST RESULT

| Component | Mode | Comment    | Output Voltage |
|-----------|------|------------|----------------|
| R64       | Open | No Hazard. |                |