

TEST DATA OF SUCS1R54815

Regulated DC Power Supply
Sep 28, 2004

Approved by : Tetsuo Sugimori
Tetsuo Sugimori Design Manager

Prepared by : Masahiro Shima
Masahiro Shima Design Engineer

COSEL CO.,LTD.



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(Final Page 18)

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Model	SUCS1R54815		
Item	Input Current (by Input Voltage)	Temperature 25°C	Testing Circuitry Figure A
Object	—	—	—
1. Graph			
<p style="text-align: center;"> —△— Load 100% ---□--- Load 50% ---○--- Load 0% </p> <p>Input Current [A]</p> <p>Input Voltage [V]</p>			
<p>Note: Slanted line shows the range of the rated input voltage.</p>			
2. Values			
Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0	0.000	0.000	0.000
8.0	0.000	0.000	0.000
16.0	0.000	0.000	0.000
21.6	0.007	0.054	0.114
24.0	0.007	0.044	0.087
33.0	0.006	0.032	0.060
36.0	0.006	0.029	0.054
40.0	0.006	0.027	0.049
48.0	0.005	0.023	0.041
60.0	0.005	0.020	0.034
70.0	0.006	0.018	0.030
76.0	0.006	0.017	0.028
80.0	0.006	0.017	0.027
--	-	-	-
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Item	Input Current (by Load Current)	Temperature 25°C Testing Circuitry Figure A																																																			
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1.Graph	—△— Input Volt. 36V ---□--- Input Volt. 48V ---○--- Input Volt. 76V	2.Values																																																			
	<p>The graph shows three curves representing different input voltages: 36V (solid line with triangles), 48V (dashed line with squares), and 76V (dash-dot line with circles). All curves show a positive linear relationship between input current and load current. A slanted line is drawn across the graph, representing the rated load current range.</p>	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.006</td><td>0.005</td><td>0.006</td></tr> <tr><td>0.02</td><td>0.015</td><td>0.013</td><td>0.011</td></tr> <tr><td>0.04</td><td>0.025</td><td>0.020</td><td>0.015</td></tr> <tr><td>0.06</td><td>0.035</td><td>0.027</td><td>0.019</td></tr> <tr><td>0.08</td><td>0.045</td><td>0.034</td><td>0.024</td></tr> <tr><td>0.10</td><td>0.055</td><td>0.041</td><td>0.028</td></tr> <tr><td>0.11</td><td>0.060</td><td>0.045</td><td>0.031</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	Load Current [A]	Input Current [A]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	0.006	0.005	0.006	0.02	0.015	0.013	0.011	0.04	0.025	0.020	0.015	0.06	0.035	0.027	0.019	0.08	0.045	0.034	0.024	0.10	0.055	0.041	0.028	0.11	0.060	0.045	0.031	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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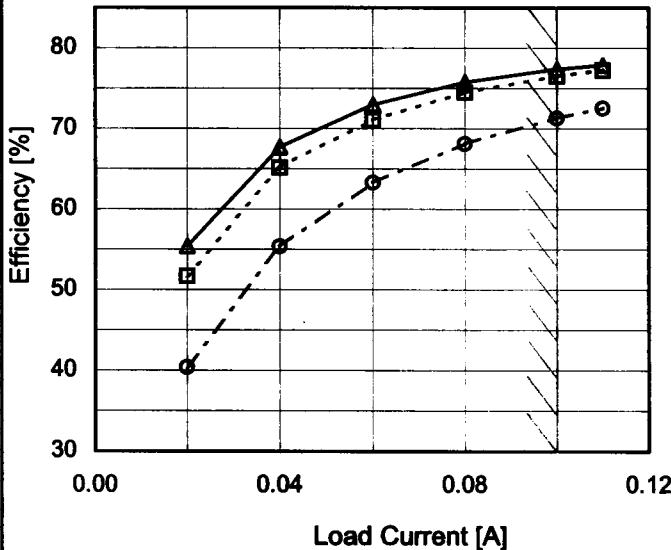
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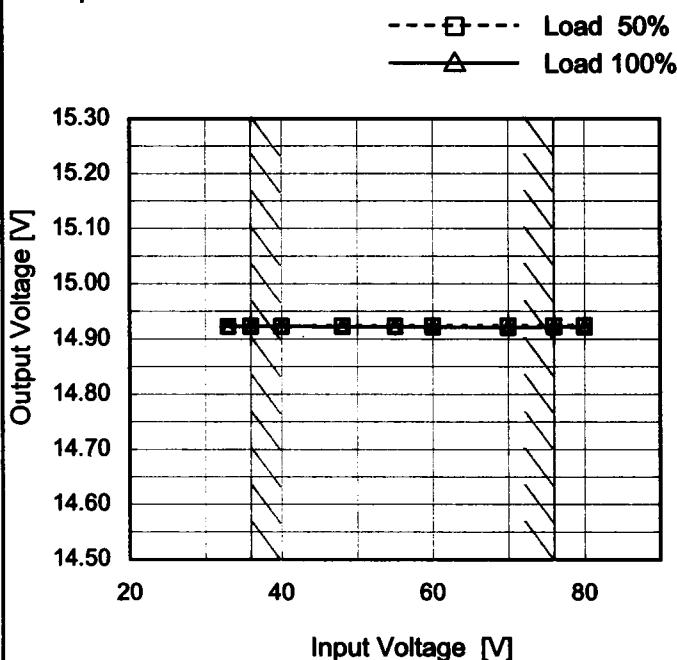
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Model	SUCS1R54815
Item	Line Regulation
Object	+15V0.1A

1.Graph



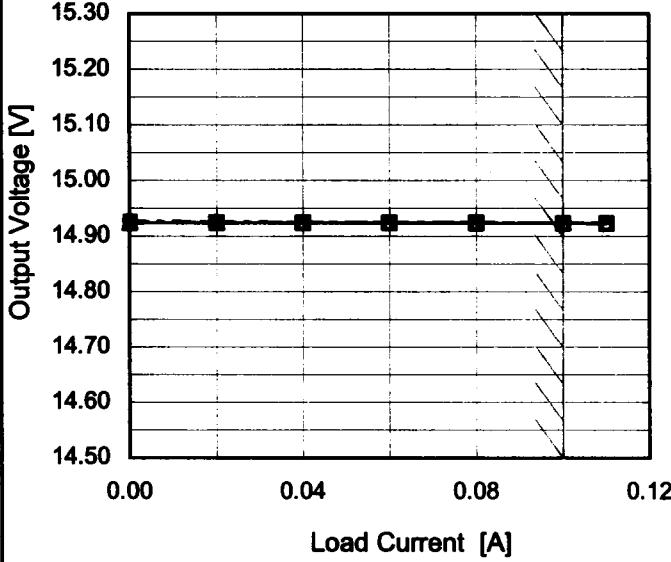
Note: Slanted line shows the range of the rated input voltage.

Temperature 25°C
Testing Circuitry Figure A

2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
33	14.923	14.923
36	14.924	14.923
40	14.923	14.923
48	14.924	14.923
55	14.924	14.922
60	14.924	14.922
70	14.924	14.921
76	14.924	14.922
80	14.925	14.922

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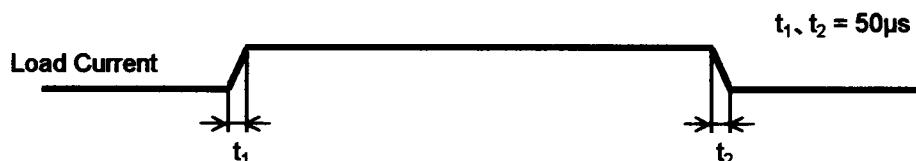
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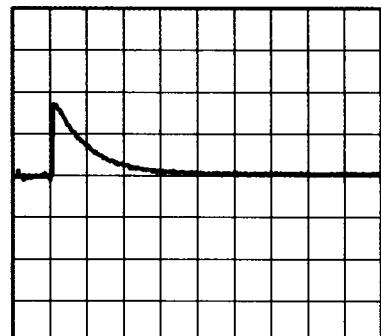
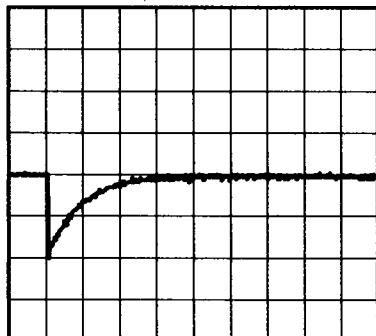
Model SUCS1R54815

Item Dynamic Load Response

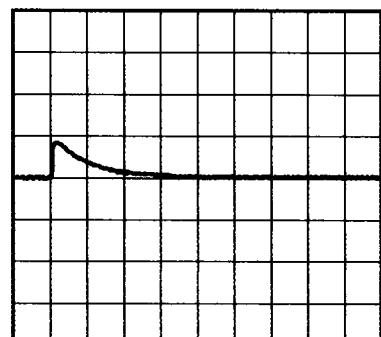
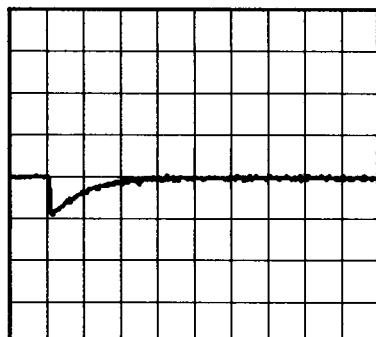
Object +15V0.1A

Temperature 25°C
Testing Circuitry Figure AInput Volt. 48 V
Cycle 100 mSMin. Load (0A) ↔
Load 100% (0.1A)

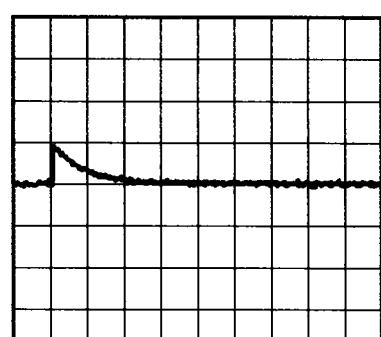
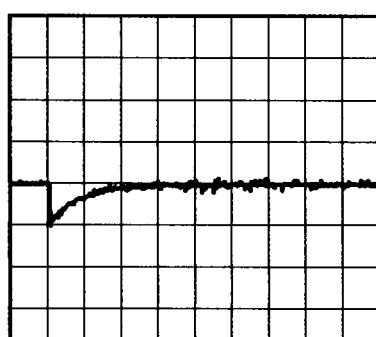
100mV/div

Min. Load (0A) ↔
Load 50% (0.05A)

100mV/div

Load 50% (0.05A) ↔
Load 100% (0.1A)

100mV/div



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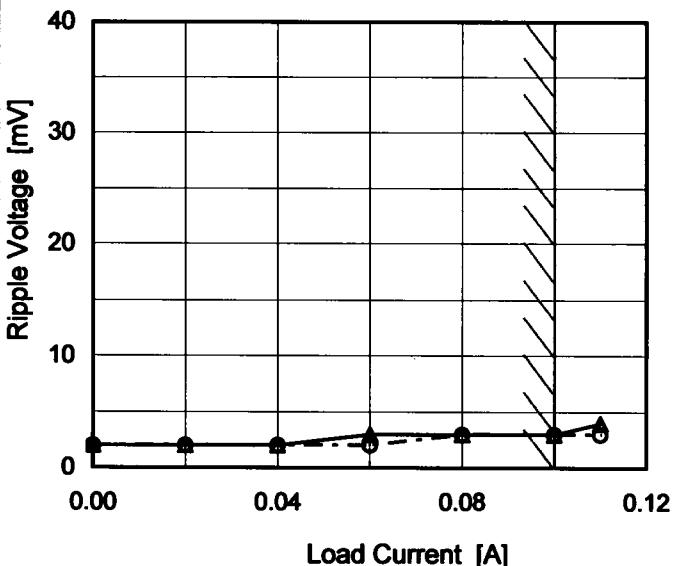
Model SUCS1R54815

Item Ripple Voltage (by Load Current)

Object +15V0.1A

1. Graph

—▲— Input Volt. 36V
 -○- Input Volt. 76V



Measured by 100 MHz Oscilloscope.

Ripple Voltage is shown as p-p in the figure below.

Note: Slanted line shows the range of the rated load current.

Ripple [mVp-p]

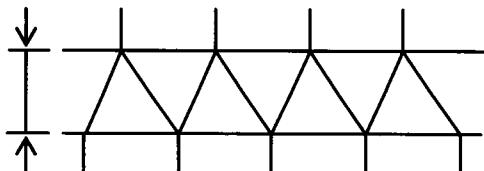


Fig. Complex Ripple Wave Form

Temperature 25°C
Testing Circuitry Figure B

2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.00	2	2
0.02	2	2
0.04	2	2
0.06	3	2
0.08	3	3
0.10	3	3
0.11	4	3
-	-	-
-	-	-
-	-	-
-	-	-

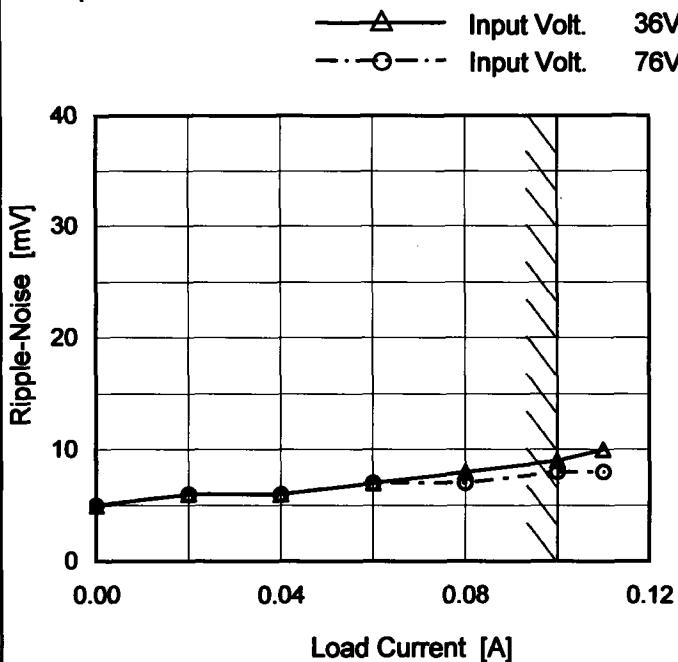
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Model SUCS1R54815

Item Ripple-Noise

Object +15V0.1A

1. Graph



Measured by 100 MHz Oscilloscope.

Ripple-Noise is shown as p-p in the figure below.

Note: Slanted line shows the range of the rated load current.

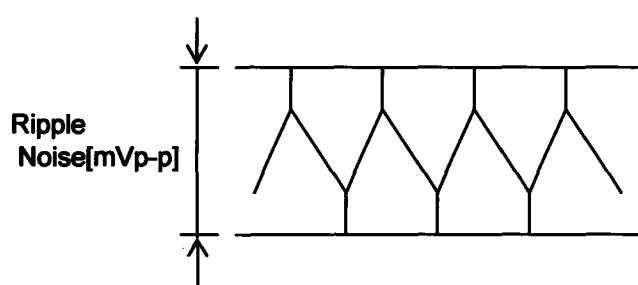


Fig.Complex Ripple Noise Wave Form

Temperature 25°C
Testing Circuitry Figure B

2. Values

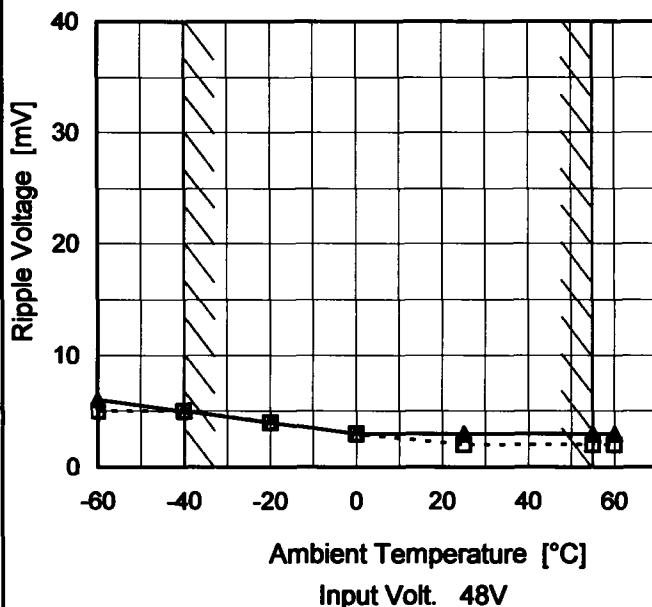
Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 36 [V]	Input Volt. 76 [V]
0.00	5	5
0.02	6	6
0.04	6	6
0.06	7	7
0.08	8	7
0.10	9	8
0.11	10	8
-	-	-
-	-	-
-	-	-
-	-	-

COSEL

Model	SUCS1R54815
Item	Ripple Voltage (by Ambient Temp.)
Object	+15V0.1A

1. Graph

---□--- Load 50%
—△— Load 100%



Testing Circuitry Figure B

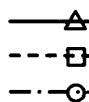
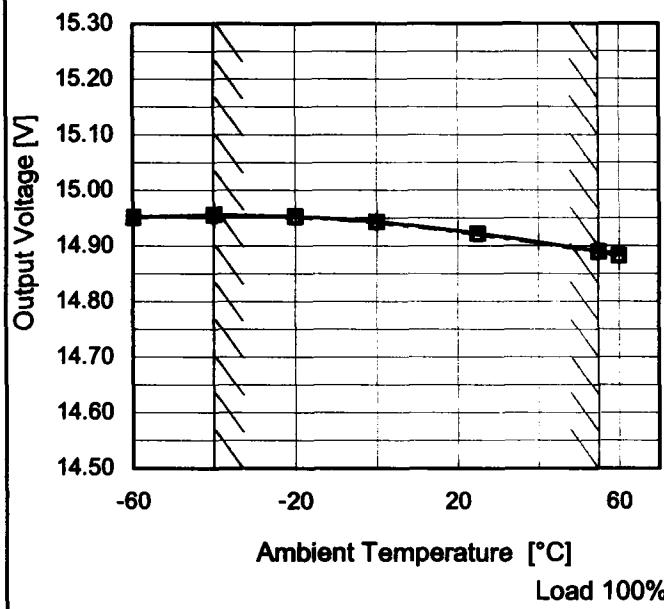
2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	5	6
-40	5	5
-20	4	4
0	3	3
25	2	3
55	2	3
60	2	3
—	—	—
—	—	—
—	—	—
—	—	—

Measured by 100 MHz Oscilloscope.

Note: Slanted line shows the range of the rated ambient temperature.

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Model	SUCS1R54815	Testing Circuitry Figure A																																																					
Item	Ambient Temperature Drift																																																						
Object	+15V0.1A																																																						
1.Graph	<p style="text-align: center;">  Input Volt. 36V Input Volt. 48V Input Volt. 76V </p>  <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>																																																						
2.Values	<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr> <td>-60</td><td>14.951</td><td>14.952</td><td>14.952</td></tr> <tr> <td>-40</td><td>14.956</td><td>14.956</td><td>14.955</td></tr> <tr> <td>-20</td><td>14.953</td><td>14.953</td><td>14.952</td></tr> <tr> <td>0</td><td>14.944</td><td>14.943</td><td>14.942</td></tr> <tr> <td>25</td><td>14.923</td><td>14.922</td><td>14.920</td></tr> <tr> <td>55</td><td>14.891</td><td>14.889</td><td>14.888</td></tr> <tr> <td>60</td><td>14.884</td><td>14.882</td><td>14.881</td></tr> <tr> <td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>				Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	-60	14.951	14.952	14.952	-40	14.956	14.956	14.955	-20	14.953	14.953	14.952	0	14.944	14.943	14.942	25	14.923	14.922	14.920	55	14.891	14.889	14.888	60	14.884	14.882	14.881	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Note: Slanted line shows the range of the rated ambient temperature.



Model	SUCS1R54815	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+15V0.1A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -40 - 55°C

Input Voltage : 36 - 76V

Load Current : 0 - 0.1A

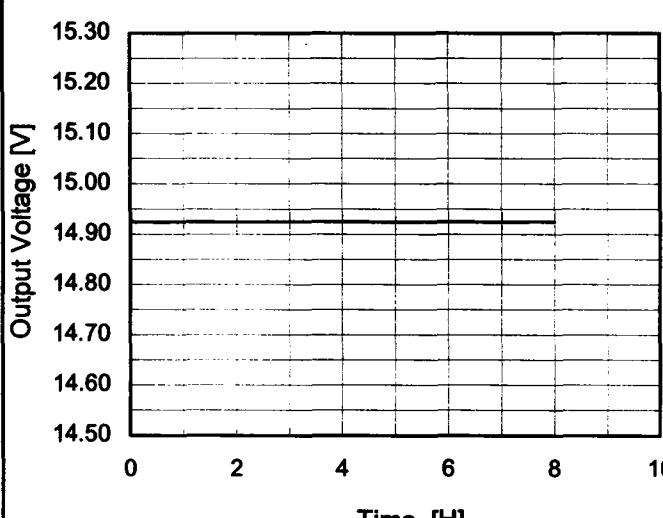
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

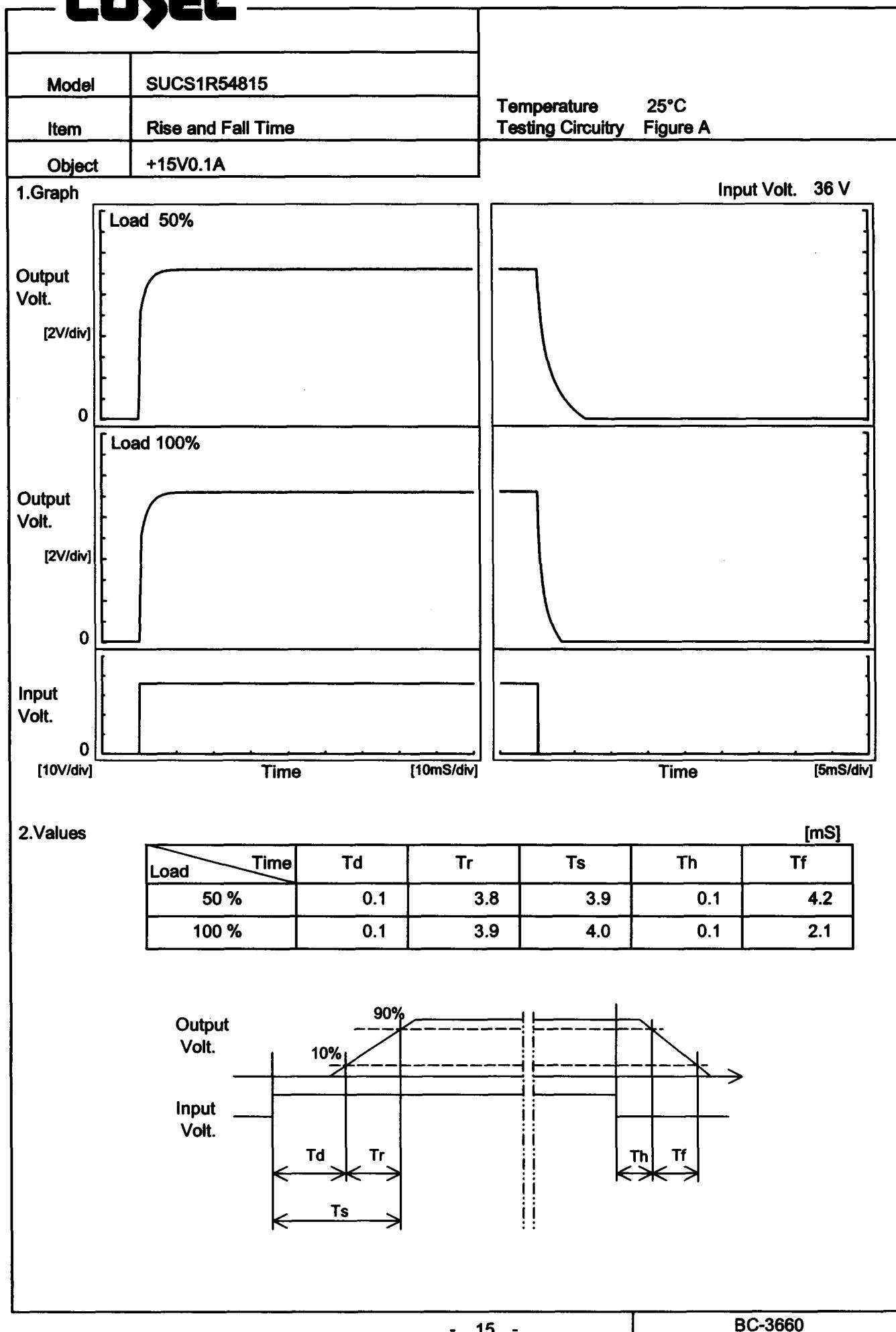
$$\text{* Output Voltage Accuracy (Ratio)} = \frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-40	76	0	14.960	±36	±0.2
Minimum Voltage	55	76	0.1	14.888		

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Model	SUCS1R54815	Temperature	25°C																						
Item	Time Lapse Drift	Testing Circuitry	Figure A																						
Object	+15V0.1A																								
1.Graph			2.Values																						
 <p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 48V Load 100%</p>			<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>14.932</td></tr> <tr><td>0.5</td><td>14.924</td></tr> <tr><td>1.0</td><td>14.925</td></tr> <tr><td>2.0</td><td>14.925</td></tr> <tr><td>3.0</td><td>14.925</td></tr> <tr><td>4.0</td><td>14.925</td></tr> <tr><td>5.0</td><td>14.925</td></tr> <tr><td>6.0</td><td>14.925</td></tr> <tr><td>7.0</td><td>14.925</td></tr> <tr><td>8.0</td><td>14.926</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	14.932	0.5	14.924	1.0	14.925	2.0	14.925	3.0	14.925	4.0	14.925	5.0	14.925	6.0	14.925	7.0	14.925	8.0	14.926
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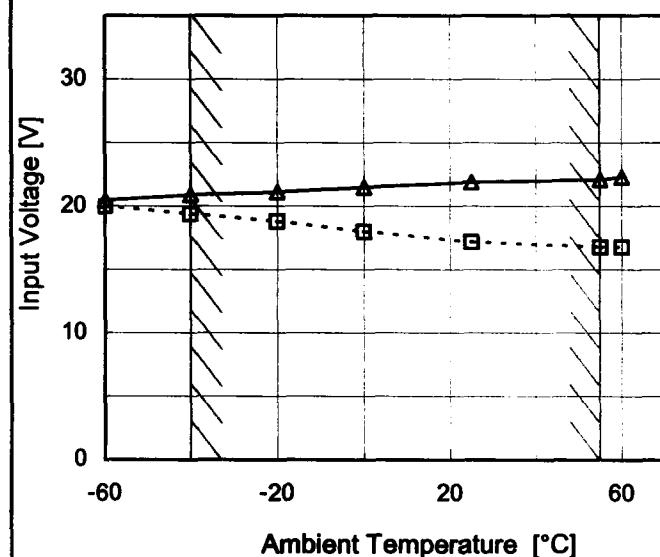
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Model	SUCS1R54815
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+15V0.1A

1. Graph

---□--- Load 50%
—△— Load 100%



Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	20.0	20.5
-40	19.4	20.9
-20	18.8	21.2
0	18.1	21.5
25	17.3	21.9
55	16.8	22.1
60	16.8	22.3
--	-	-
--	-	-
--	-	-
--	-	-

COSEL

Model	SUCCS1R54815	Temperature	25°C	
Item	Overcurrent Protection	Testing Circuitry	Figure A	
Object	+15V0.1A	2. Values		
1. Graph	<p>Input Volt. 36V Input Volt. 48V Input Volt. 76V</p> <p>The graph plots Output Voltage [V] on the Y-axis (0 to 20) against Load Current [A] on the X-axis (0.00 to 0.40). Three curves are shown for different input voltages: 36V (solid), 48V (dashed), and 76V (dash-dot). All curves show a sharp drop in output voltage as load current increases beyond a certain point. A slanted line is drawn across the graph, representing the range of the rated load current.</p>			
		Output Voltage [V]	Load Current [A]	
		36[V]	48[V]	
		76[V]		
	15.0	0.10	0.10	
	14.3	0.16	0.16	
	13.5	0.17	0.16	
	12.0	0.18	0.17	
	10.5	0.19	0.19	
	9.0	0.21	0.20	
	7.5	0.22	0.21	
	6.0	0.24	0.22	
	4.5	0.25	0.23	
	3.0	0.25	0.23	
	1.5	0.24	0.22	
	0.0	0.31	0.28	

Note: Slanted line shows the range of the rated load current.

COSEL

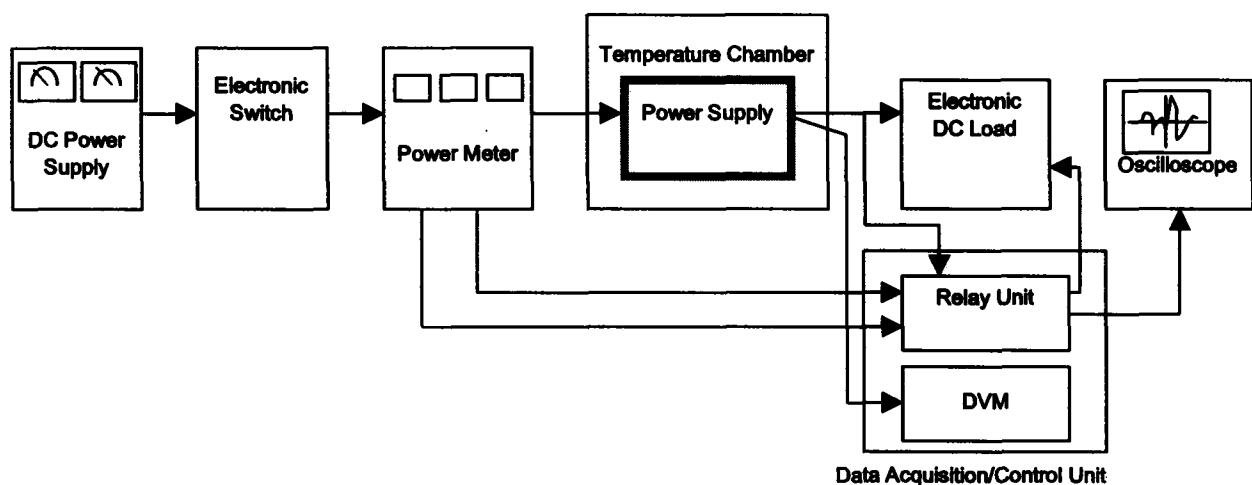


Figure A

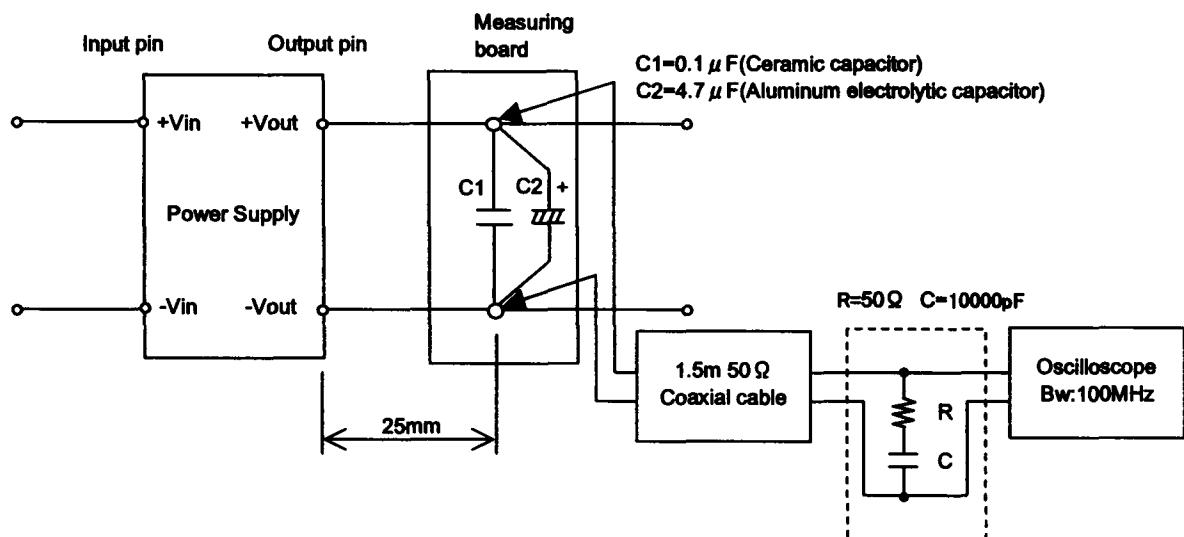


Figure B (Ripple and Ripple noise Characteristic)